



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Approximately 16001 - 16100 Gougar Road

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59802 Longitude: -88.00677

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms

Project Name: FAP 351 (IL 7)

Latitude: 41.59802 Longitude: -88.00677

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATION 846D-7-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-7. SEE FIGURE 2 AND TABLE 3a OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-63639-1

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/3/14

Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 846D-7
Fairland**

Sample ID	846D-7-B01								
Sample Depth (ft)	0-1								
Sample Date	9/25/2013								
PID	0								
Sample pH	7.4								
Matrix	Soil								
No Contaminants of Concern Noted.									
		¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63639-1
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/17/2013 4:19:18 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-1

Client Sample ID: 846D-7-B01

Lab Sample ID: 500-63639-1

Date Collected: 09/25/13 09:25

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 84.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Vinyl acetate	<0.0047		0.0047	0.00073	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	09/25/13 09:25	10/02/13 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	09/25/13 09:25	10/02/13 02:17	1
Dibromofluoromethane	103		75 - 120	09/25/13 09:25	10/02/13 02:17	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/25/13 09:25	10/02/13 02:17	1
Toluene-d8 (Surr)	95		75 - 122	09/25/13 09:25	10/02/13 02:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-1

Client Sample ID: 846D-7-B01

Lab Sample ID: 500-63639-1

Date Collected: 09/25/13 09:25

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-1

Client Sample ID: 846D-7-B01

Lab Sample ID: 500-63639-1

Date Collected: 09/25/13 09:25

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	10/03/13 07:30	10/09/13 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		25 - 110	10/03/13 07:30	10/09/13 14:55	1
Phenol-d5	68		31 - 110	10/03/13 07:30	10/09/13 14:55	1
Nitrobenzene-d5	75		25 - 115	10/03/13 07:30	10/09/13 14:55	1
2-Fluorobiphenyl	67		25 - 119	10/03/13 07:30	10/09/13 14:55	1
2,4,6-Tribromophenol	70		35 - 137	10/03/13 07:30	10/09/13 14:55	1
Terphenyl-d14	96		36 - 134	10/03/13 07:30	10/09/13 14:55	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00081	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
alpha-Chlordane	<0.0020		0.0020	0.00099	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
Endosulfan I	<0.0020		0.0020	0.00085	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
Heptachlor	<0.0020		0.0020	0.00082	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
Methoxychlor	<0.0097		0.0097	0.00038	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1
Toxaphene	<0.019		0.019	0.0082	mg/Kg	☼	10/03/13 07:14	10/05/13 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	76		56 - 128	10/03/13 07:14	10/05/13 20:11	1
Tetrachloro-m-xylene	56		45 - 112	10/03/13 07:14	10/05/13 20:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-1

Client Sample ID: 846D-7-B01

Lab Sample ID: 500-63639-1

Date Collected: 09/25/13 09:25

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 84.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000	B	11	1.1	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Arsenic	5.9		0.57	0.11	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Barium	110		0.57	0.061	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Beryllium	1.4		0.23	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Boron	2.2	J	2.9	0.12	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Cadmium	0.14		0.11	0.015	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Calcium	1600	B	11	3.1	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Chromium	13		0.57	0.066	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Cobalt	14		0.29	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Copper	21	B	0.57	0.051	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Iron	17000		11	4.7	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Lead	14		0.29	0.085	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Magnesium	3400	B	5.7	1.2	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Manganese	220	B	0.57	0.031	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Nickel	43		0.57	0.056	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Potassium	830		29	1.7	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Sodium	55	J	57	7.7	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Vanadium	19		0.29	0.042	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1
Zinc	80	B	1.1	0.23	mg/Kg	☼	09/26/13 08:00	10/01/13 02:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.082	J	0.10	0.050	mg/L		10/16/13 09:30	10/16/13 17:44	1
Iron	<0.20		0.20	0.20	mg/L		10/16/13 09:30	10/16/13 17:44	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.4		0.50	0.010	mg/L		10/10/13 09:00	10/10/13 19:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/13 09:00	10/10/13 19:47	1
Boron	2.4		0.10	0.050	mg/L		10/10/13 09:00	10/10/13 19:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/13 09:00	10/10/13 19:47	1
Chromium	0.013	J	0.025	0.010	mg/L		10/10/13 09:00	10/10/13 19:47	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 19:47	1
Iron	6.8		0.20	0.20	mg/L		10/10/13 09:00	10/10/13 19:47	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/10/13 09:00	10/10/13 19:47	1
Manganese	0.039		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 19:47	1
Nickel	0.010	J	0.025	0.010	mg/L		10/10/13 09:00	10/10/13 19:47	1
Selenium	<0.050		0.050	0.010	mg/L		10/10/13 09:00	10/10/13 19:47	1
Silver	<0.025		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 19:47	1
Zinc	0.99	B	0.10	0.020	mg/L		10/10/13 09:00	10/10/13 19:47	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/10/13 09:00	10/10/13 18:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/10/13 09:00	10/10/13 18:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-1

Client Sample ID: 846D-7-B01

Lab Sample ID: 500-63639-1

Date Collected: 09/25/13 09:25

Matrix: Solid

Date Received: 09/25/13 12:35

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/10/13 15:40	10/11/13 13:28	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.018	0.0083	mg/Kg	✱	10/01/13 15:30	10/02/13 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.40		0.200	0.200	SU			10/10/13 17:08	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>US 6 ILL 7 Will + Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEI</u>	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63639</u> Sample Temp: <u>31.3, 4</u> Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other											
ANALYSES														
VOCs	X	SVOCs	X	BETX & MTBF	PNA	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments	
1	846 D-7-B01	9/25/13	9:25	S		X	X	X	X	X	X		0-1	
													Date/Time	9/25/13 11:58
													Date/Time	9/25/13 1235
													Date/Time	9/25/13 1235
Relinquished by: <u>Kevin A. Myer (AEI)</u>													Date/Time	9/25/13 11:58
Relinquished by: <u>John</u>													Date/Time	9/25/13 1235
Relinquished by: <u>John</u>													Date/Time	9/25/13 1235

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15824 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59844 Longitude: -88.00508

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)
Latitude: 41.59844 Longitude: -88.00508

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-8-B01 THROUGH -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-8. SEE FIGURE 2 AND TABLE 3b OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-63639-2

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment
Street Address: 2300 South Dirksen Parkway
City: Springfield State: IL Zip Code: 62764
Phone: 217-785-4246

Steven Gobelman
Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14
Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 846D-8
Farmstead**

Sample ID	846D-8-B01-1	846D-8-B01-2	846D-8-B02-1	846D-8-B02-1 DUP	846D-8-B02-2	846D-8-B03-1	846D-8-B03-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	5-10	0-5	0-5	5-10	0-5	5-10						
Sample Date	9/25/2013	9/25/2013	9/25/2013	9/25/2013	9/25/2013	9/25/2013	9/25/2013						
PID	0	0	0	0	0	0	0						
Sample pH	7.45	7.83	7.71	8.13	7.79	8.08	7.88						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63639-2
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/17/2013 4:19:34 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B01-1

Lab Sample ID: 500-63639-2

Date Collected: 09/25/13 09:10

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 73.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0021	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Carbon disulfide	<0.0050		0.0050	0.00074	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Carbon tetrachloride	<0.0050		0.0050	0.00090	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Chlorobenzene	<0.0050		0.0050	0.00050	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Dibromochloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
1,2-Dichloropropane	<0.0050		0.0050	0.00075	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00068	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Vinyl acetate	<0.0050		0.0050	0.00078	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	09/25/13 09:10	10/02/13 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/25/13 09:10	10/02/13 02:40	1
Dibromofluoromethane	99		75 - 120	09/25/13 09:10	10/02/13 02:40	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/25/13 09:10	10/02/13 02:40	1
Toluene-d8 (Surr)	94		75 - 122	09/25/13 09:10	10/02/13 02:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.068	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
1,3-Dichlorobenzene	<0.22		0.22	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
1,4-Dichlorobenzene	<0.22		0.22	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B01-1

Lab Sample ID: 500-63639-2

Date Collected: 09/25/13 09:10

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 73.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
2-Methylphenol	<0.22		0.22	0.057	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.055	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Hexachloroethane	<0.22		0.22	0.046	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
2-Chlorophenol	<0.22		0.22	0.061	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Nitrobenzene	<0.043		0.043	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
2,4-Dimethylphenol	<0.43		0.43	0.13	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Hexachlorobutadiene	<0.22		0.22	0.056	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Naphthalene	<0.043		0.043	0.0083	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
2,4-Dichlorophenol	<0.43		0.43	0.13	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
4-Chloroaniline	<0.87		0.87	0.13	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
2,4,6-Trichlorophenol	<0.43		0.43	0.054	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
2,4,5-Trichlorophenol	<0.43		0.43	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Hexachlorocyclopentadiene	<0.87		0.87	0.20	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
2-Methylnaphthalene	<0.22		0.22	0.056	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
2-Nitroaniline	<0.22		0.22	0.077	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
4-Chloro-3-methylphenol	<0.43		0.43	0.21	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
2,6-Dinitrotoluene	<0.22		0.22	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
2-Nitrophenol	<0.43		0.43	0.067	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
3-Nitroaniline	<0.43		0.43	0.083	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Dimethyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
2,4-Dinitrophenol	<0.87		0.87	0.22	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Acenaphthylene	<0.043		0.043	0.0099	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
2,4-Dinitrotoluene	<0.22		0.22	0.066	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Acenaphthene	<0.043		0.043	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Dibenzofuran	<0.22		0.22	0.052	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
4-Nitrophenol	<0.87		0.87	0.23	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Fluorene	<0.043		0.043	0.0098	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
4-Nitroaniline	<0.43		0.43	0.088	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Hexachlorobenzene	<0.087		0.087	0.0085	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Diethyl phthalate	<0.22		0.22	0.072	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.068	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Pentachlorophenol	<0.87		0.87	0.22	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
N-Nitrosodiphenylamine	<0.22		0.22	0.058	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
4,6-Dinitro-2-methylphenol	<0.43		0.43	0.10	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Phenanthrene	<0.043		0.043	0.018	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Anthracene	<0.043		0.043	0.010	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Carbazole	<0.22		0.22	0.060	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Di-n-butyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Fluoranthene	<0.043		0.043	0.018	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Pyrene	<0.043		0.043	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Butyl benzyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Benzo[a]anthracene	<0.043		0.043	0.0090	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B01-1

Lab Sample ID: 500-63639-2

Date Collected: 09/25/13 09:10

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 73.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.043		0.043	0.0097	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.036	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.057	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Di-n-octyl phthalate	<0.22		0.22	0.087	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Benzo[b]fluoranthene	<0.043		0.043	0.0083	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Benzo[k]fluoranthene	<0.043		0.043	0.010	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Benzo[a]pyrene	<0.043		0.043	0.0078	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.014	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Dibenz(a,h)anthracene	<0.043		0.043	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1
3 & 4 Methylphenol	<0.22		0.22	0.081	mg/Kg	☼	10/03/13 07:30	10/09/13 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		25 - 110	10/03/13 07:30	10/09/13 15:19	1
Phenol-d5	61		31 - 110	10/03/13 07:30	10/09/13 15:19	1
Nitrobenzene-d5	63		25 - 115	10/03/13 07:30	10/09/13 15:19	1
2-Fluorobiphenyl	56		25 - 119	10/03/13 07:30	10/09/13 15:19	1
2,4,6-Tribromophenol	59		35 - 137	10/03/13 07:30	10/09/13 15:19	1
Terphenyl-d14	91		36 - 134	10/03/13 07:30	10/09/13 15:19	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0023		0.0023	0.00094	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
alpha-BHC	<0.0023		0.0023	0.00057	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
alpha-Chlordane	<0.0023		0.0023	0.0011	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
beta-BHC	<0.0023		0.0023	0.00070	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
4,4'-DDD	<0.0023		0.0023	0.00045	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
4,4'-DDE	<0.0023		0.0023	0.00037	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
4,4'-DDT	<0.0023		0.0023	0.0012	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
delta-BHC	<0.0023		0.0023	0.00071	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
Dieldrin	<0.0023		0.0023	0.00031	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
Endosulfan I	<0.0023		0.0023	0.00099	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
Endosulfan II	<0.0023		0.0023	0.00037	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
Endosulfan sulfate	<0.0023		0.0023	0.00041	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
Endrin	<0.0023		0.0023	0.00031	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
Endrin aldehyde	<0.0023		0.0023	0.00038	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
Endrin ketone	<0.0023		0.0023	0.00051	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
gamma-BHC (Lindane)	<0.0023		0.0023	0.00049	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
gamma-Chlordane	<0.0023		0.0023	0.00059	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
Heptachlor	<0.0023		0.0023	0.00095	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
Heptachlor epoxide	<0.0023		0.0023	0.00080	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
Methoxychlor	<0.011		0.011	0.00044	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1
Toxaphene	<0.023		0.023	0.0095	mg/Kg	☼	10/03/13 07:14	10/05/13 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		56 - 128	10/03/13 07:14	10/05/13 21:09	1
Tetrachloro-m-xylene	47		45 - 112	10/03/13 07:14	10/05/13 21:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B01-1

Lab Sample ID: 500-63639-2

Date Collected: 09/25/13 09:10

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 73.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17000	B	13	1.2	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Antimony	<1.3		1.3	0.51	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Arsenic	11		0.63	0.13	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Barium	73		0.63	0.067	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Beryllium	0.86		0.25	0.022	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Boron	3.3		3.1	0.13	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Cadmium	0.24		0.13	0.016	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Calcium	5400	B	13	3.4	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Chromium	21		0.63	0.073	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Cobalt	14		0.31	0.022	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Copper	30	B	0.63	0.056	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Iron	29000		13	5.2	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Lead	30		0.31	0.094	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Magnesium	5800	B	6.3	1.3	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Manganese	440	B	0.63	0.034	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Nickel	46		0.63	0.062	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Potassium	1800		31	1.9	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Selenium	<0.63		0.63	0.22	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Sodium	410		63	8.4	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Thallium	0.54	J	0.63	0.27	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Vanadium	28		0.31	0.047	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1
Zinc	150	B	1.3	0.25	mg/Kg	☼	09/26/13 08:00	10/01/13 02:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.084	J	0.10	0.050	mg/L		10/16/13 09:30	10/16/13 18:12	1
Iron	<0.20		0.20	0.20	mg/L		10/16/13 09:30	10/16/13 18:12	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/16/13 09:30	10/16/13 18:12	1
Manganese	0.11		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 18:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		10/10/13 09:00	10/10/13 20:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/13 09:00	10/10/13 20:12	1
Boron	2.3		0.10	0.050	mg/L		10/10/13 09:00	10/10/13 20:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/13 09:00	10/10/13 20:12	1
Chromium	0.045		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:12	1
Cobalt	0.011	J	0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 20:12	1
Iron	52		0.20	0.20	mg/L		10/10/13 09:00	10/10/13 20:12	1
Lead	0.026		0.0075	0.0050	mg/L		10/10/13 09:00	10/10/13 20:12	1
Manganese	0.24		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:12	1
Nickel	0.039		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:12	1
Selenium	<0.050		0.050	0.010	mg/L		10/10/13 09:00	10/10/13 20:12	1
Silver	<0.025		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 20:12	1
Zinc	1.2	B	0.10	0.020	mg/L		10/10/13 09:00	10/10/13 20:12	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/10/13 09:00	10/10/13 18:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B01-1

Lab Sample ID: 500-63639-2

Date Collected: 09/25/13 09:10

Matrix: Solid

Date Received: 09/25/13 12:35

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/10/13 09:00	10/10/13 18:51	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J B	0.00020	0.000020	mg/L		10/10/13 15:40	10/11/13 13:30	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.071		0.022	0.010	mg/Kg	✱	10/01/13 15:30	10/02/13 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.45		0.200	0.200	SU			10/10/13 17:12	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B01-2

Lab Sample ID: 500-63639-3

Date Collected: 09/25/13 09:15

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 85.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	09/25/13 09:15	10/02/13 03:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/25/13 09:15	10/02/13 03:04	1
Dibromofluoromethane	104		75 - 120	09/25/13 09:15	10/02/13 03:04	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 134	09/25/13 09:15	10/02/13 03:04	1
Toluene-d8 (Surr)	95		75 - 122	09/25/13 09:15	10/02/13 03:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B01-2

Lab Sample ID: 500-63639-3

Date Collected: 09/25/13 09:15

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B01-2

Lab Sample ID: 500-63639-3

Date Collected: 09/25/13 09:15

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Benzo[a]pyrene	<0.037		0.037	0.0069	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	10/03/13 07:30	10/09/13 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		25 - 110	10/03/13 07:30	10/09/13 15:42	1
Phenol-d5	84		31 - 110	10/03/13 07:30	10/09/13 15:42	1
Nitrobenzene-d5	47		25 - 115	10/03/13 07:30	10/09/13 15:42	1
2-Fluorobiphenyl	55		25 - 119	10/03/13 07:30	10/09/13 15:42	1
2,4,6-Tribromophenol	79		35 - 137	10/03/13 07:30	10/09/13 15:42	1
Terphenyl-d14	90		36 - 134	10/03/13 07:30	10/09/13 15:42	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
alpha-Chlordane	<0.0019		0.0019	0.00093	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
beta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
4,4'-DDT	<0.0019		0.0019	0.00097	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
delta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
Endosulfan I	<0.0019		0.0019	0.00081	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
gamma-Chlordane	<0.0019		0.0019	0.00048	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
Heptachlor	<0.0019		0.0019	0.00077	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
Methoxychlor	<0.0092		0.0092	0.00036	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1
Toxaphene	<0.018		0.018	0.0078	mg/Kg	☼	10/03/13 07:14	10/07/13 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		56 - 128	10/03/13 07:14	10/07/13 11:47	1
Tetrachloro-m-xylene	39	X	45 - 112	10/03/13 07:14	10/07/13 11:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B01-2

Lab Sample ID: 500-63639-3

Date Collected: 09/25/13 09:15

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 85.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5800	B	11	1.1	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Arsenic	5.1		0.57	0.11	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Barium	16		0.57	0.061	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Beryllium	0.38		0.23	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Boron	6.8		2.9	0.12	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Cadmium	0.22		0.11	0.015	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Calcium	60000		110	31	mg/Kg	☼	09/26/13 08:00	10/02/13 12:52	10
Chromium	9.9		0.57	0.066	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Cobalt	8.3		0.29	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Copper	19	B	0.57	0.051	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Iron	14000		11	4.7	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Lead	12		0.29	0.085	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Magnesium	28000	B	5.7	1.2	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Manganese	310	B	0.57	0.031	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Nickel	21		0.57	0.056	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Potassium	1400		29	1.7	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Selenium	0.22	J	0.57	0.20	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Sodium	130		57	7.7	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Vanadium	12		0.29	0.042	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1
Zinc	48	B	1.1	0.23	mg/Kg	☼	09/26/13 08:00	10/01/13 03:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/16/13 09:30	10/16/13 18:17	1
Iron	0.57		0.20	0.20	mg/L		10/16/13 09:30	10/16/13 18:17	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/16/13 09:30	10/16/13 18:17	1
Manganese	1.0		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 18:17	1
Nickel	<0.025		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 18:17	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.33	J	0.50	0.010	mg/L		10/10/13 09:00	10/10/13 20:18	1
Beryllium	0.0046		0.0040	0.0040	mg/L		10/10/13 09:00	10/10/13 20:18	1
Boron	0.24		0.10	0.050	mg/L		10/10/13 09:00	10/10/13 20:18	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		10/10/13 09:00	10/10/13 20:18	1
Chromium	0.085		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:18	1
Cobalt	0.038		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 20:18	1
Iron	120		0.20	0.20	mg/L		10/10/13 09:00	10/10/13 20:18	1
Lead	0.052		0.0075	0.0050	mg/L		10/10/13 09:00	10/10/13 20:18	1
Manganese	0.52		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:18	1
Nickel	0.11		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:18	1
Selenium	<0.050		0.050	0.010	mg/L		10/10/13 09:00	10/10/13 20:18	1
Silver	<0.025		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 20:18	1
Zinc	0.39	B	0.10	0.020	mg/L		10/10/13 09:00	10/10/13 20:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B01-2

Lab Sample ID: 500-63639-3

Date Collected: 09/25/13 09:15

Matrix: Solid

Date Received: 09/25/13 12:35

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/16/13 09:30	10/16/13 15:50	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/10/13 09:00	10/10/13 18:54	1
Thallium	0.0038		0.0020	0.0020	mg/L		10/10/13 09:00	10/10/13 18:54	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000020	mg/L		10/10/13 15:40	10/11/13 13:40	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0084	mg/Kg	☼	10/01/13 15:30	10/02/13 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.83		0.200	0.200	SU			10/10/13 17:16	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B02-1

Lab Sample ID: 500-63639-4

Date Collected: 09/25/13 08:50

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 80.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
1,1,1-Dichloroethane	<0.0045		0.0045	0.00073	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	09/25/13 08:50	10/02/13 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/25/13 08:50	10/02/13 03:27	1
Dibromofluoromethane	103		75 - 120	09/25/13 08:50	10/02/13 03:27	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/25/13 08:50	10/02/13 03:27	1
Toluene-d8 (Surr)	94		75 - 122	09/25/13 08:50	10/02/13 03:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B02-1

Lab Sample ID: 500-63639-4

Date Collected: 09/25/13 08:50

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 80.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B02-1

Lab Sample ID: 500-63639-4

Date Collected: 09/25/13 08:50

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 80.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	10/03/13 07:30	10/09/13 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		25 - 110				10/03/13 07:30	10/09/13 16:05	1
Phenol-d5	49		31 - 110				10/03/13 07:30	10/09/13 16:05	1
Nitrobenzene-d5	51		25 - 115				10/03/13 07:30	10/09/13 16:05	1
2-Fluorobiphenyl	41		25 - 119				10/03/13 07:30	10/09/13 16:05	1
2,4,6-Tribromophenol	55		35 - 137				10/03/13 07:30	10/09/13 16:05	1
Terphenyl-d14	69		36 - 134				10/03/13 07:30	10/09/13 16:05	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00083	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
alpha-BHC	<0.0020		0.0020	0.00051	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
alpha-Chlordane	<0.0020		0.0020	0.0010	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
beta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
4,4'-DDD	<0.0020		0.0020	0.00040	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
4,4'-DDT	<0.0020		0.0020	0.0011	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
delta-BHC	<0.0020		0.0020	0.00063	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
Endosulfan I	<0.0020		0.0020	0.00087	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
Endrin	<0.0020		0.0020	0.00028	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
Endrin aldehyde	<0.0020		0.0020	0.00034	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
Endrin ketone	<0.0020		0.0020	0.00045	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00043	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
gamma-Chlordane	<0.0020		0.0020	0.00052	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
Heptachlor	<0.0020		0.0020	0.00084	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
Heptachlor epoxide	<0.0020		0.0020	0.00071	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
Methoxychlor	<0.0099		0.0099	0.00039	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
Toxaphene	<0.020		0.020	0.0084	mg/Kg	☼	10/03/13 07:14	10/05/13 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		56 - 128				10/03/13 07:14	10/05/13 21:49	1
Tetrachloro-m-xylene	44	X	45 - 112				10/03/13 07:14	10/05/13 21:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B02-1

Lab Sample ID: 500-63639-4

Date Collected: 09/25/13 08:50

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 80.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9000	B	11	1.0	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Arsenic	3.6		0.57	0.11	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Barium	58		0.57	0.061	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Beryllium	0.55		0.23	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Boron	2.2	J	2.9	0.12	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Cadmium	0.14		0.11	0.014	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Calcium	2100	B	11	3.1	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Chromium	13		0.57	0.066	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Cobalt	6.6		0.29	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Copper	13	B	0.57	0.051	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Iron	12000		11	4.7	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Lead	15		0.29	0.085	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Magnesium	2900	B	5.7	1.2	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Manganese	120	B	0.57	0.031	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Nickel	32		0.57	0.056	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Potassium	1000		29	1.7	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Sodium	310		57	7.6	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Vanadium	15		0.29	0.042	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1
Zinc	67	B	1.1	0.23	mg/Kg	☼	09/26/13 08:00	10/01/13 03:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/16/13 09:30	10/16/13 18:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/16/13 09:30	10/16/13 18:22	1
Chromium	<0.025		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 18:22	1
Iron	1.9		0.20	0.20	mg/L		10/16/13 09:30	10/16/13 18:22	1
Lead	0.0078		0.0075	0.0050	mg/L		10/16/13 09:30	10/16/13 18:22	1
Manganese	0.74		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 18:22	1
Nickel	0.019	J	0.025	0.010	mg/L		10/16/13 09:30	10/16/13 18:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.93		0.50	0.010	mg/L		10/10/13 09:00	10/10/13 20:24	1
Beryllium	0.0098		0.0040	0.0040	mg/L		10/10/13 09:00	10/10/13 20:24	1
Boron	0.18		0.10	0.050	mg/L		10/10/13 09:00	10/10/13 20:24	1
Cadmium	0.0095		0.0050	0.0020	mg/L		10/10/13 09:00	10/10/13 20:24	1
Chromium	0.22		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:24	1
Cobalt	0.050		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 20:24	1
Iron	260		0.20	0.20	mg/L		10/10/13 09:00	10/10/13 20:24	1
Lead	0.10		0.0075	0.0050	mg/L		10/10/13 09:00	10/10/13 20:24	1
Manganese	1.1		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:24	1
Nickel	0.28		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:24	1
Selenium	<0.050		0.050	0.010	mg/L		10/10/13 09:00	10/10/13 20:24	1
Silver	<0.025		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 20:24	1
Zinc	0.78	B	0.10	0.020	mg/L		10/10/13 09:00	10/10/13 20:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B02-1

Lab Sample ID: 500-63639-4

Date Collected: 09/25/13 08:50

Matrix: Solid

Date Received: 09/25/13 12:35

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/16/13 09:30	10/16/13 15:53	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/10/13 09:00	10/10/13 18:58	1
Thallium	0.0053		0.0020	0.0020	mg/L		10/10/13 09:00	10/10/13 18:58	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00072	B	0.00020	0.000020	mg/L		10/10/13 15:40	10/11/13 13:42	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.018	0.0086	mg/Kg	☼	10/01/13 15:30	10/02/13 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.71		0.200	0.200	SU			10/10/13 17:20	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B02-1 DUP

Lab Sample ID: 500-63639-5

Date Collected: 09/25/13 08:55

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00083	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Vinyl acetate	<0.0047		0.0047	0.00073	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	09/25/13 08:55	10/02/13 03:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/25/13 08:55	10/02/13 03:50	1
Dibromofluoromethane	102		75 - 120	09/25/13 08:55	10/02/13 03:50	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/25/13 08:55	10/02/13 03:50	1
Toluene-d8 (Surr)	94		75 - 122	09/25/13 08:55	10/02/13 03:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B02-1 DUP

Lab Sample ID: 500-63639-5

Date Collected: 09/25/13 08:55

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Hexachlorobenzene	<0.078		0.078	0.0077	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Benzo[a]anthracene	<0.039		0.039	0.0081	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B02-1 DUP

Lab Sample ID: 500-63639-5

Date Collected: 09/25/13 08:55

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Benzo[b]fluoranthene	<0.039		0.039	0.0075	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	10/03/13 07:30	10/09/13 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	10/03/13 07:30	10/09/13 16:28	1
Phenol-d5	54		31 - 110	10/03/13 07:30	10/09/13 16:28	1
Nitrobenzene-d5	59		25 - 115	10/03/13 07:30	10/09/13 16:28	1
2-Fluorobiphenyl	51		25 - 119	10/03/13 07:30	10/09/13 16:28	1
2,4,6-Tribromophenol	70		35 - 137	10/03/13 07:30	10/09/13 16:28	1
Terphenyl-d14	88		36 - 134	10/03/13 07:30	10/09/13 16:28	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00083	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
alpha-BHC	<0.0020		0.0020	0.00051	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
alpha-Chlordane	<0.0020		0.0020	0.0010	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
beta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
4,4'-DDD	<0.0020		0.0020	0.00040	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
4,4'-DDT	<0.0020		0.0020	0.0011	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
delta-BHC	<0.0020		0.0020	0.00063	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
Endosulfan I	<0.0020		0.0020	0.00087	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
Endrin	<0.0020		0.0020	0.00028	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
Endrin aldehyde	<0.0020		0.0020	0.00034	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
Endrin ketone	<0.0020		0.0020	0.00045	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00043	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
gamma-Chlordane	<0.0020		0.0020	0.00052	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
Heptachlor	<0.0020		0.0020	0.00084	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
Heptachlor epoxide	<0.0020		0.0020	0.00071	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
Methoxychlor	<0.0099		0.0099	0.00039	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1
Toxaphene	<0.020		0.020	0.0084	mg/Kg	☼	10/03/13 07:14	10/05/13 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		56 - 128	10/03/13 07:14	10/05/13 22:08	1
Tetrachloro-m-xylene	48		45 - 112	10/03/13 07:14	10/05/13 22:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B02-1 DUP

Lab Sample ID: 500-63639-5

Date Collected: 09/25/13 08:55

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 81.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000	B	12	1.1	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Arsenic	5.6		0.58	0.12	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Barium	56		0.58	0.062	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Beryllium	0.51		0.23	0.021	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Boron	2.2	J	2.9	0.12	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Cadmium	0.10	J	0.12	0.015	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Calcium	2000	B	12	3.2	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Chromium	17		0.58	0.068	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Cobalt	6.4		0.29	0.021	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Copper	15	B	0.58	0.052	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Iron	19000		12	4.8	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Lead	16		0.29	0.087	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Magnesium	3200	B	5.8	1.2	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Manganese	100	B	0.58	0.032	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Nickel	15		0.58	0.057	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Potassium	1200		29	1.8	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Selenium	0.31	J	0.58	0.21	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Sodium	420		58	7.8	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Thallium	<0.58		0.58	0.25	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Vanadium	26		0.29	0.043	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1
Zinc	54	B	1.2	0.24	mg/Kg	☼	09/26/13 08:00	10/01/13 03:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/16/13 09:30	10/16/13 18:27	1
Boron	0.98		0.10	0.050	mg/L		10/16/13 09:30	10/16/13 18:27	1
Iron	<0.20		0.20	0.20	mg/L		10/16/13 09:30	10/16/13 18:27	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/16/13 09:30	10/16/13 18:27	1
Manganese	0.90		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 18:27	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.7		0.50	0.010	mg/L		10/10/13 09:00	10/10/13 20:45	1
Beryllium	0.0043		0.0040	0.0040	mg/L		10/10/13 09:00	10/10/13 20:45	1
Boron	2.6		0.10	0.050	mg/L		10/10/13 09:00	10/10/13 20:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/13 09:00	10/10/13 20:45	1
Chromium	0.096		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:45	1
Cobalt	0.020	J	0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 20:45	1
Iron	78		0.20	0.20	mg/L		10/10/13 09:00	10/10/13 20:45	1
Lead	0.040		0.0075	0.0050	mg/L		10/10/13 09:00	10/10/13 20:45	1
Manganese	0.27		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:45	1
Nickel	0.062		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:45	1
Selenium	<0.050		0.050	0.010	mg/L		10/10/13 09:00	10/10/13 20:45	1
Silver	<0.025		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 20:45	1
Zinc	1.2	B	0.10	0.020	mg/L		10/10/13 09:00	10/10/13 20:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B02-1 DUP

Lab Sample ID: 500-63639-5

Date Collected: 09/25/13 08:55

Matrix: Solid

Date Received: 09/25/13 12:35

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/10/13 09:00	10/10/13 19:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/10/13 09:00	10/10/13 19:06	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000038	J B	0.00020	0.000020	mg/L		10/10/13 15:40	10/11/13 13:44	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.020	0.0093	mg/Kg	☼	10/01/13 15:30	10/02/13 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13		0.200	0.200	SU			10/10/13 17:24	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B02-2

Lab Sample ID: 500-63639-6

Date Collected: 09/25/13 09:00

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 83.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0072		0.0047	0.0020	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Vinyl acetate	<0.0047		0.0047	0.00073	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	09/25/13 09:00	10/02/13 04:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/25/13 09:00	10/02/13 04:13	1
Dibromofluoromethane	101		75 - 120	09/25/13 09:00	10/02/13 04:13	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	09/25/13 09:00	10/02/13 04:13	1
Toluene-d8 (Surr)	95		75 - 122	09/25/13 09:00	10/02/13 04:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B02-2

Lab Sample ID: 500-63639-6

Date Collected: 09/25/13 09:00

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 83.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
2,4-Dichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
2,4,6-Trichlorophenol	<0.38		0.38	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Fluoranthene	<0.038		0.038	0.015	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B02-2

Lab Sample ID: 500-63639-6

Date Collected: 09/25/13 09:00

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 83.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.038	0.0085	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Benzo[b]fluoranthene	<0.038		0.038	0.0073	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	10/03/13 07:30	10/09/13 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		25 - 110	10/03/13 07:30	10/09/13 16:52	1
Phenol-d5	66		31 - 110	10/03/13 07:30	10/09/13 16:52	1
Nitrobenzene-d5	69		25 - 115	10/03/13 07:30	10/09/13 16:52	1
2-Fluorobiphenyl	62		25 - 119	10/03/13 07:30	10/09/13 16:52	1
2,4,6-Tribromophenol	80		35 - 137	10/03/13 07:30	10/09/13 16:52	1
Terphenyl-d14	92		36 - 134	10/03/13 07:30	10/09/13 16:52	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00082	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
alpha-BHC	<0.0020		0.0020	0.00050	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
alpha-Chlordane	<0.0020		0.0020	0.00099	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
beta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
delta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
Endosulfan I	<0.0020		0.0020	0.00086	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00043	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
gamma-Chlordane	<0.0020		0.0020	0.00052	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
Heptachlor	<0.0020		0.0020	0.00083	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
Heptachlor epoxide	<0.0020		0.0020	0.00070	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
Methoxychlor	<0.0098		0.0098	0.00038	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1
Toxaphene	<0.020		0.020	0.0083	mg/Kg	☼	10/03/13 07:14	10/05/13 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		56 - 128	10/03/13 07:14	10/05/13 22:28	1
Tetrachloro-m-xylene	46		45 - 112	10/03/13 07:14	10/05/13 22:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B02-2

Lab Sample ID: 500-63639-6

Date Collected: 09/25/13 09:00

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 83.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000	B	12	1.1	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Arsenic	5.4		0.58	0.12	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Barium	47		0.58	0.062	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Beryllium	0.56		0.23	0.021	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Boron	8.9		2.9	0.12	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Cadmium	0.28		0.12	0.015	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Calcium	69000		120	31	mg/Kg	☼	09/26/13 08:00	10/02/13 12:56	10
Chromium	16		0.58	0.067	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Cobalt	15		0.29	0.021	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Copper	27	B	0.58	0.052	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Iron	23000		12	4.8	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Lead	16		0.29	0.087	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Magnesium	23000	B	5.8	1.2	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Manganese	410	B	0.58	0.032	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Nickel	38		0.58	0.057	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Potassium	2200		29	1.7	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Selenium	0.32	J	0.58	0.21	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Sodium	310		58	7.8	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Thallium	0.36	J	0.58	0.25	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Vanadium	20		0.29	0.043	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1
Zinc	71	B	1.2	0.23	mg/Kg	☼	09/26/13 08:00	10/01/13 03:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/16/13 09:30	10/16/13 18:32	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		10/16/13 09:30	10/16/13 18:32	1
Chromium	<0.025		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 18:32	1
Iron	0.35		0.20	0.20	mg/L		10/16/13 09:30	10/16/13 18:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/16/13 09:30	10/16/13 18:32	1
Manganese	0.78		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 18:32	1
Nickel	<0.025		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 18:32	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.6		0.50	0.010	mg/L		10/10/13 09:00	10/10/13 20:52	1
Beryllium	0.0082		0.0040	0.0040	mg/L		10/10/13 09:00	10/10/13 20:52	1
Boron	1.9		0.10	0.050	mg/L		10/10/13 09:00	10/10/13 20:52	1
Cadmium	0.0070		0.0050	0.0020	mg/L		10/10/13 09:00	10/10/13 20:52	1
Chromium	0.18		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:52	1
Cobalt	0.061		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 20:52	1
Iron	270		0.20	0.20	mg/L		10/10/13 09:00	10/10/13 20:52	1
Lead	0.13		0.0075	0.0050	mg/L		10/10/13 09:00	10/10/13 20:52	1
Manganese	0.67		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:52	1
Nickel	0.20		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:52	1
Selenium	0.011	J	0.050	0.010	mg/L		10/10/13 09:00	10/10/13 20:52	1
Silver	<0.025		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 20:52	1
Zinc	1.3	B	0.10	0.020	mg/L		10/10/13 09:00	10/10/13 20:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B02-2

Lab Sample ID: 500-63639-6

Date Collected: 09/25/13 09:00

Matrix: Solid

Date Received: 09/25/13 12:35

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/16/13 09:30	10/16/13 15:57	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/10/13 09:00	10/10/13 19:16	1
Thallium	0.0051		0.0020	0.0020	mg/L		10/10/13 09:00	10/10/13 19:16	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00037	B	0.00020	0.000020	mg/L		10/10/13 15:40	10/11/13 13:46	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0082	mg/Kg	☼	10/01/13 15:30	10/02/13 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.79		0.200	0.200	SU			10/10/13 17:28	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B03-1

Lab Sample ID: 500-63639-7

Date Collected: 09/25/13 08:35

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 85.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00053	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
1,1-Dichloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
1,1,1-Dichloroethane	<0.0041		0.0041	0.00066	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00053	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Ethylbenzene	<0.0041		0.0041	0.00082	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00067	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Styrene	<0.0041		0.0041	0.00053	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00082	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	09/25/13 08:35	10/02/13 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/25/13 08:35	10/02/13 04:36	1
Dibromofluoromethane	100		75 - 120	09/25/13 08:35	10/02/13 04:36	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/25/13 08:35	10/02/13 04:36	1
Toluene-d8 (Surr)	95		75 - 122	09/25/13 08:35	10/02/13 04:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B03-1

Lab Sample ID: 500-63639-7

Date Collected: 09/25/13 08:35

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B03-1

Lab Sample ID: 500-63639-7

Date Collected: 09/25/13 08:35

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	10/03/13 07:30	10/09/13 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110	10/03/13 07:30	10/09/13 17:15	1
Phenol-d5	57		31 - 110	10/03/13 07:30	10/09/13 17:15	1
Nitrobenzene-d5	61		25 - 115	10/03/13 07:30	10/09/13 17:15	1
2-Fluorobiphenyl	53		25 - 119	10/03/13 07:30	10/09/13 17:15	1
2,4,6-Tribromophenol	64		35 - 137	10/03/13 07:30	10/09/13 17:15	1
Terphenyl-d14	87		36 - 134	10/03/13 07:30	10/09/13 17:15	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00079	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
alpha-Chlordane	<0.0019		0.0019	0.00096	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
beta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
4,4'-DDE	<0.0019		0.0019	0.00032	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
Endosulfan I	<0.0019		0.0019	0.00083	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
gamma-Chlordane	<0.0019		0.0019	0.00050	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
Heptachlor	<0.0019		0.0019	0.00080	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
Heptachlor epoxide	<0.0019		0.0019	0.00068	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
Methoxychlor	<0.0094		0.0094	0.00037	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1
Toxaphene	<0.019		0.019	0.0080	mg/Kg	☼	10/03/13 07:14	10/05/13 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		56 - 128	10/03/13 07:14	10/05/13 22:47	1
Tetrachloro-m-xylene	50		45 - 112	10/03/13 07:14	10/05/13 22:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B03-1

Lab Sample ID: 500-63639-7

Date Collected: 09/25/13 08:35

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 85.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9400	B	11	1.0	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Arsenic	6.7		0.56	0.11	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Barium	42		0.56	0.060	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Beryllium	0.54		0.22	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Boron	8.2		2.8	0.12	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Cadmium	0.19		0.11	0.014	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Calcium	60000		110	30	mg/Kg	☼	09/26/13 08:00	10/02/13 13:00	10
Chromium	15		0.56	0.065	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Cobalt	16		0.28	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Copper	22	B	0.56	0.050	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Iron	18000		11	4.6	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Lead	14		0.28	0.084	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Magnesium	21000	B	5.6	1.2	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Manganese	370	B	0.56	0.030	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Nickel	31		0.56	0.055	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Potassium	1800		28	1.7	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Selenium	0.40	J	0.56	0.20	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Sodium	290		56	7.5	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Vanadium	19		0.28	0.042	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1
Zinc	55	B	1.1	0.23	mg/Kg	☼	09/26/13 08:00	10/01/13 03:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.89		0.10	0.050	mg/L		10/16/13 09:30	10/16/13 18:37	1
Iron	<0.20		0.20	0.20	mg/L		10/16/13 09:30	10/16/13 18:37	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/16/13 09:30	10/16/13 18:37	1
Manganese	0.46		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 18:37	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.4		0.50	0.010	mg/L		10/10/13 09:00	10/10/13 20:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/13 09:00	10/10/13 20:58	1
Boron	2.3		0.10	0.050	mg/L		10/10/13 09:00	10/10/13 20:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/13 09:00	10/10/13 20:58	1
Chromium	0.056		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:58	1
Cobalt	0.011	J	0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 20:58	1
Iron	51		0.20	0.20	mg/L		10/10/13 09:00	10/10/13 20:58	1
Lead	0.025		0.0075	0.0050	mg/L		10/10/13 09:00	10/10/13 20:58	1
Manganese	0.24		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:58	1
Nickel	0.049		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 20:58	1
Selenium	<0.050		0.050	0.010	mg/L		10/10/13 09:00	10/10/13 20:58	1
Silver	<0.025		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 20:58	1
Zinc	1.1	B	0.10	0.020	mg/L		10/10/13 09:00	10/10/13 20:58	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/10/13 09:00	10/10/13 19:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B03-1

Lab Sample ID: 500-63639-7

Date Collected: 09/25/13 08:35

Matrix: Solid

Date Received: 09/25/13 12:35

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/10/13 09:00	10/10/13 19:20	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000069	J B	0.00020	0.000020	mg/L		10/10/13 15:40	10/11/13 13:48	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0086	mg/Kg	✱	10/01/13 15:30	10/02/13 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.08		0.200	0.200	SU			10/10/13 17:32	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B03-2

Lab Sample ID: 500-63639-8

Date Collected: 09/25/13 08:40

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 84.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0018	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Bromoform	<0.0043		0.0043	0.00098	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Dibromochloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Ethylbenzene	<0.0043		0.0043	0.00086	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00086	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Tetrachloroethene	<0.0043		0.0043	0.00065	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	09/25/13 08:40	10/02/13 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/25/13 08:40	10/02/13 04:59	1
Dibromofluoromethane	98		75 - 120	09/25/13 08:40	10/02/13 04:59	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	09/25/13 08:40	10/02/13 04:59	1
Toluene-d8 (Surr)	95		75 - 122	09/25/13 08:40	10/02/13 04:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B03-2

Lab Sample ID: 500-63639-8

Date Collected: 09/25/13 08:40

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
2,4-Dichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
2,4,6-Trichlorophenol	<0.38		0.38	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
4-Nitroaniline	<0.38		0.38	0.077	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Fluoranthene	<0.038		0.038	0.015	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B03-2

Lab Sample ID: 500-63639-8

Date Collected: 09/25/13 08:40

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0085	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Benzo[b]fluoranthene	<0.038		0.038	0.0073	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	10/03/13 07:30	10/09/13 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110	10/03/13 07:30	10/09/13 17:38	1
Phenol-d5	57		31 - 110	10/03/13 07:30	10/09/13 17:38	1
Nitrobenzene-d5	61		25 - 115	10/03/13 07:30	10/09/13 17:38	1
2-Fluorobiphenyl	50		25 - 119	10/03/13 07:30	10/09/13 17:38	1
2,4,6-Tribromophenol	65		35 - 137	10/03/13 07:30	10/09/13 17:38	1
Terphenyl-d14	87		36 - 134	10/03/13 07:30	10/09/13 17:38	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00081	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
alpha-BHC	<0.0020		0.0020	0.00050	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
alpha-Chlordane	<0.0020		0.0020	0.00099	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
beta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
delta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
Endosulfan I	<0.0020		0.0020	0.00086	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
Heptachlor	<0.0020		0.0020	0.00082	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
Heptachlor epoxide	<0.0020		0.0020	0.00070	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
Methoxychlor	<0.0097		0.0097	0.00038	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1
Toxaphene	<0.020		0.020	0.0083	mg/Kg	☼	10/03/13 07:14	10/05/13 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		56 - 128	10/03/13 07:14	10/05/13 23:07	1
Tetrachloro-m-xylene	53		45 - 112	10/03/13 07:14	10/05/13 23:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B03-2

Lab Sample ID: 500-63639-8

Date Collected: 09/25/13 08:40

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 84.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8200	B	11	1.0	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Arsenic	4.4		0.55	0.11	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Barium	39		0.55	0.059	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Beryllium	0.45		0.22	0.019	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Boron	7.5		2.7	0.12	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Cadmium	0.19		0.11	0.014	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Calcium	60000		110	30	mg/Kg	☼	09/26/13 08:00	10/02/13 13:04	10
Chromium	13		0.55	0.064	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Cobalt	6.2		0.27	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Copper	17	B	0.55	0.049	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Iron	15000		11	4.5	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Lead	10		0.27	0.082	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Magnesium	22000	B	5.5	1.1	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Manganese	240	B	0.55	0.030	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Nickel	19		0.55	0.054	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Potassium	1600		27	1.7	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Sodium	160		55	7.3	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Vanadium	17		0.27	0.041	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1
Zinc	48	B	1.1	0.22	mg/Kg	☼	09/26/13 08:00	10/01/13 03:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.1		0.10	0.050	mg/L		10/16/13 09:30	10/16/13 18:43	1
Iron	<0.20		0.20	0.20	mg/L		10/16/13 09:30	10/16/13 18:43	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/16/13 09:30	10/16/13 18:43	1
Manganese	3.9		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 18:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2		0.50	0.010	mg/L		10/10/13 09:00	10/10/13 21:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/13 09:00	10/10/13 21:04	1
Boron	2.0		0.10	0.050	mg/L		10/10/13 09:00	10/10/13 21:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/13 09:00	10/10/13 21:04	1
Chromium	0.048		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 21:04	1
Cobalt	0.012	J	0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 21:04	1
Iron	44		0.20	0.20	mg/L		10/10/13 09:00	10/10/13 21:04	1
Lead	0.024		0.0075	0.0050	mg/L		10/10/13 09:00	10/10/13 21:04	1
Manganese	0.28		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 21:04	1
Nickel	0.040		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 21:04	1
Selenium	<0.050		0.050	0.010	mg/L		10/10/13 09:00	10/10/13 21:04	1
Silver	<0.025		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 21:04	1
Zinc	0.98	B	0.10	0.020	mg/L		10/10/13 09:00	10/10/13 21:04	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/10/13 09:00	10/10/13 19:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Client Sample ID: 846D-8-B03-2

Lab Sample ID: 500-63639-8

Date Collected: 09/25/13 08:40

Matrix: Solid

Date Received: 09/25/13 12:35

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/10/13 09:00	10/10/13 19:23	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/10/13 15:40	10/11/13 13:50	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0085	mg/Kg	✱	10/01/13 15:30	10/02/13 12:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU			10/10/13 17:36	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>US6/IL7 Wilu & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEI</u>	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63639</u> Sample Temp.: <u>3/1/34</u>																																																																																																																																																																																											
Matrix-Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other																																																																																																																																																																																														
ANALYSES																																																																																																																																																																																														
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> <th>VOCs</th> <th>SVOCs</th> <th>BTEX & MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>846D-8-B01-1</td> <td>9/25/13</td> <td>9:10</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-5'</td> </tr> <tr> <td>3</td> <td>846D-8-B01-2</td> <td></td> <td>9:15</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5'-10'</td> </tr> <tr> <td>4</td> <td>846D-8-B02-1</td> <td></td> <td>8:50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0-5'</td> </tr> <tr> <td>5</td> <td>846D-8-B02-1 DUP</td> <td></td> <td>8:55</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0-5'</td> </tr> <tr> <td>6</td> <td>846D-8-B02-2</td> <td></td> <td>9:00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5'-10'</td> </tr> <tr> <td>7</td> <td>846D-8-B03-1</td> <td></td> <td>8:35</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0-5'</td> </tr> <tr> <td>8</td> <td>846D-8-B03-2</td> <td>↓</td> <td>8:40</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>5'-10'</td> </tr> <tr> <td colspan="17" style="text-align: center;"> Relinquished by: <u>Kelin A. Wright (AEI)</u> Date/Time: <u>9/25/13 11:58</u> Received by: <u>[Signature]</u> Date/Time: <u>9/25/13 11:58</u> </td> </tr> <tr> <td colspan="17" style="text-align: center;"> Relinquished by: <u>[Signature]</u> Date/Time: <u>9/25/13 12:35</u> Received by: <u>[Signature]</u> Date/Time: <u>9/25/13 12:35</u> </td> </tr> <tr> <td colspan="17" style="text-align: center;"> Relinquished by: <u>[Signature]</u> Date/Time: <u>9/25/13 12:35</u> Received by: <u>[Signature]</u> Date/Time: <u>9/25/13 12:35</u> </td> </tr> </tbody> </table>			Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	2	846D-8-B01-1	9/25/13	9:10	S	X	X			X		X	X	X	X		0-5'	3	846D-8-B01-2		9:15													5'-10'	4	846D-8-B02-1		8:50													0-5'	5	846D-8-B02-1 DUP		8:55													0-5'	6	846D-8-B02-2		9:00													5'-10'	7	846D-8-B03-1		8:35													0-5'	8	846D-8-B03-2	↓	8:40	S	X	X			X		X	X	X	X		5'-10'	Relinquished by: <u>Kelin A. Wright (AEI)</u> Date/Time: <u>9/25/13 11:58</u> Received by: <u>[Signature]</u> Date/Time: <u>9/25/13 11:58</u>																	Relinquished by: <u>[Signature]</u> Date/Time: <u>9/25/13 12:35</u> Received by: <u>[Signature]</u> Date/Time: <u>9/25/13 12:35</u>																	Relinquished by: <u>[Signature]</u> Date/Time: <u>9/25/13 12:35</u> Received by: <u>[Signature]</u> Date/Time: <u>9/25/13 12:35</u>																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments																																																																																																																																																																														
2	846D-8-B01-1	9/25/13	9:10	S	X	X			X		X	X	X	X		0-5'																																																																																																																																																																														
3	846D-8-B01-2		9:15													5'-10'																																																																																																																																																																														
4	846D-8-B02-1		8:50													0-5'																																																																																																																																																																														
5	846D-8-B02-1 DUP		8:55													0-5'																																																																																																																																																																														
6	846D-8-B02-2		9:00													5'-10'																																																																																																																																																																														
7	846D-8-B03-1		8:35													0-5'																																																																																																																																																																														
8	846D-8-B03-2	↓	8:40	S	X	X			X		X	X	X	X		5'-10'																																																																																																																																																																														
Relinquished by: <u>Kelin A. Wright (AEI)</u> Date/Time: <u>9/25/13 11:58</u> Received by: <u>[Signature]</u> Date/Time: <u>9/25/13 11:58</u>																																																																																																																																																																																														
Relinquished by: <u>[Signature]</u> Date/Time: <u>9/25/13 12:35</u> Received by: <u>[Signature]</u> Date/Time: <u>9/25/13 12:35</u>																																																																																																																																																																																														
Relinquished by: <u>[Signature]</u> Date/Time: <u>9/25/13 12:35</u> Received by: <u>[Signature]</u> Date/Time: <u>9/25/13 12:35</u>																																																																																																																																																																																														



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
15839 - 15925 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59819 Longitude: -88.00379
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59819 Longitude: -88.00379

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-9-B02 AND -B03 WERE SAMPLED ADJACENT TO ISGS SITE NO. 846D-9. SEE FIGURE 2 AND TABLE 3c OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-63639-3

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-9

Residences

Sample ID	846D-9-B02-1	846D-9-B02-2	846D-9-B03-1	846D-9-B03-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	5-10	0-5	5-10						
Sample Date	9/25/2013	9/25/2013	9/25/2013	9/25/2013						
PID	0	0	0	0						
Sample pH	8.04	8.48	8.29	8.1						
Matrix	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.										

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63639-3
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/17/2013 4:20:20 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B02-1

Lab Sample ID: 500-63639-11

Date Collected: 09/25/13 10:05

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 83.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
1,1,1-Dichloroethane	<0.0045		0.0045	0.00073	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	09/25/13 10:05	10/02/13 06:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/25/13 10:05	10/02/13 06:09	1
Dibromofluoromethane	98		75 - 120	09/25/13 10:05	10/02/13 06:09	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	09/25/13 10:05	10/02/13 06:09	1
Toluene-d8 (Surr)	94		75 - 122	09/25/13 10:05	10/02/13 06:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B02-1

Lab Sample ID: 500-63639-11

Date Collected: 09/25/13 10:05

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B02-1

Lab Sample ID: 500-63639-11

Date Collected: 09/25/13 10:05

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	10/03/13 07:30	10/09/13 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		25 - 110	10/03/13 07:30	10/09/13 18:47	1
Phenol-d5	79		31 - 110	10/03/13 07:30	10/09/13 18:47	1
Nitrobenzene-d5	81		25 - 115	10/03/13 07:30	10/09/13 18:47	1
2-Fluorobiphenyl	68		25 - 119	10/03/13 07:30	10/09/13 18:47	1
2,4,6-Tribromophenol	88		35 - 137	10/03/13 07:30	10/09/13 18:47	1
Terphenyl-d14	89		36 - 134	10/03/13 07:30	10/09/13 18:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8700	B	11	1.0	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Arsenic	8.0		0.56	0.11	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Barium	47		0.56	0.060	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Beryllium	0.49		0.22	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Boron	5.2		2.8	0.12	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Cadmium	0.26		0.11	0.014	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Calcium	47000		110	30	mg/Kg	☼	09/26/13 08:00	10/02/13 13:12	10
Chromium	14		0.56	0.065	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Cobalt	13		0.28	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Copper	23	B	0.56	0.049	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Iron	19000		11	4.6	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Lead	14		0.28	0.083	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Magnesium	21000	B	5.6	1.1	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Manganese	360	B	0.56	0.030	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Nickel	33		0.56	0.055	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Potassium	1300		28	1.7	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Sodium	360		56	7.5	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Thallium	0.24	J	0.56	0.24	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Vanadium	17		0.28	0.041	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1
Zinc	66	B	1.1	0.23	mg/Kg	☼	09/26/13 08:00	10/01/13 03:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.1		0.10	0.050	mg/L		10/16/13 09:30	10/16/13 19:05	1
Iron	<0.20		0.20	0.20	mg/L		10/16/13 09:30	10/16/13 19:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B02-1

Lab Sample ID: 500-63639-11

Date Collected: 09/25/13 10:05

Matrix: Solid

Date Received: 09/25/13 12:35

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		10/16/13 09:30	10/16/13 19:05	1
Manganese	1.2		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 19:05	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.4		0.50	0.010	mg/L		10/10/13 09:00	10/10/13 21:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/13 09:00	10/10/13 21:23	1
Boron	2.2		0.10	0.050	mg/L		10/10/13 09:00	10/10/13 21:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/13 09:00	10/10/13 21:23	1
Chromium	0.059		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 21:23	1
Cobalt	0.019	J	0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 21:23	1
Iron	63		0.20	0.20	mg/L		10/10/13 09:00	10/10/13 21:23	1
Lead	0.031		0.0075	0.0050	mg/L		10/10/13 09:00	10/10/13 21:23	1
Manganese	0.32		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 21:23	1
Nickel	0.068		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 21:23	1
Selenium	<0.050		0.050	0.010	mg/L		10/10/13 09:00	10/10/13 21:23	1
Silver	<0.025		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 21:23	1
Zinc	1.1	B	0.10	0.020	mg/L		10/10/13 09:00	10/10/13 21:23	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/10/13 09:00	10/10/13 19:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/10/13 09:00	10/10/13 19:34	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000029	J B	0.00020	0.000020	mg/L		10/10/13 15:40	10/11/13 13:56	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0083	mg/Kg	☼	10/01/13 15:30	10/02/13 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.04		0.200	0.200	SU			10/10/13 17:48	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B02-2

Lab Sample ID: 500-63639-12

Date Collected: 09/25/13 10:10

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 84.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.010		0.0044	0.0019	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Carbon tetrachloride	<0.0044		0.0044	0.00079	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Chloromethane	<0.0044		0.0044	0.00091	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
1,2-Dichloroethane	<0.0044		0.0044	0.00064	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
1,2-Dichloropropane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Tetrachloroethene	<0.0044		0.0044	0.00066	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00078	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00059	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Vinyl acetate	<0.0044		0.0044	0.00068	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Vinyl chloride	<0.0044		0.0044	0.00091	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	09/25/13 10:10	10/02/13 06:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/25/13 10:10	10/02/13 06:32	1
Dibromofluoromethane	99		75 - 120	09/25/13 10:10	10/02/13 06:32	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/25/13 10:10	10/02/13 06:32	1
Toluene-d8 (Surr)	93		75 - 122	09/25/13 10:10	10/02/13 06:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B02-2

Lab Sample ID: 500-63639-12

Date Collected: 09/25/13 10:10

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B02-2

Lab Sample ID: 500-63639-12

Date Collected: 09/25/13 10:10

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	10/03/13 07:30	10/09/13 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		25 - 110	10/03/13 07:30	10/09/13 19:10	1
Phenol-d5	74		31 - 110	10/03/13 07:30	10/09/13 19:10	1
Nitrobenzene-d5	78		25 - 115	10/03/13 07:30	10/09/13 19:10	1
2-Fluorobiphenyl	65		25 - 119	10/03/13 07:30	10/09/13 19:10	1
2,4,6-Tribromophenol	78		35 - 137	10/03/13 07:30	10/09/13 19:10	1
Terphenyl-d14	99		36 - 134	10/03/13 07:30	10/09/13 19:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7600	B	11	1.0	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Arsenic	5.4		0.55	0.11	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Barium	38		0.55	0.058	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Beryllium	0.42		0.22	0.019	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Boron	4.8		2.7	0.11	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Cadmium	0.16		0.11	0.014	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Calcium	56000		110	30	mg/Kg	☼	09/26/13 08:00	10/02/13 13:24	10
Chromium	13		0.55	0.063	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Cobalt	11		0.27	0.019	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Copper	19	B	0.55	0.048	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Iron	15000		11	4.5	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Lead	10		0.27	0.081	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Magnesium	20000	B	5.5	1.1	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Manganese	330	B	0.55	0.030	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Nickel	29		0.55	0.054	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Potassium	1200		27	1.6	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Sodium	380		55	7.3	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Thallium	0.25	J	0.55	0.23	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Vanadium	15		0.27	0.040	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1
Zinc	49	B	1.1	0.22	mg/Kg	☼	09/26/13 08:00	10/01/13 03:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/16/13 09:30	10/16/13 19:10	1
Boron	1.1		0.10	0.050	mg/L		10/16/13 09:30	10/16/13 19:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B02-2

Lab Sample ID: 500-63639-12

Date Collected: 09/25/13 10:10

Matrix: Solid

Date Received: 09/25/13 12:35

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 19:10	1
Iron	0.23		0.20	0.20	mg/L		10/16/13 09:30	10/16/13 19:10	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/16/13 09:30	10/16/13 19:10	1
Manganese	2.2		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 19:10	1
Nickel	0.043		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 19:10	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.8		0.50	0.010	mg/L		10/10/13 09:00	10/10/13 21:29	1
Beryllium	0.0071		0.0040	0.0040	mg/L		10/10/13 09:00	10/10/13 21:29	1
Boron	2.4		0.10	0.050	mg/L		10/10/13 09:00	10/10/13 21:29	1
Cadmium	0.0033	J	0.0050	0.0020	mg/L		10/10/13 09:00	10/10/13 21:29	1
Chromium	0.15		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 21:29	1
Cobalt	0.036		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 21:29	1
Iron	160		0.20	0.20	mg/L		10/10/13 09:00	10/10/13 21:29	1
Lead	0.074		0.0075	0.0050	mg/L		10/10/13 09:00	10/10/13 21:29	1
Manganese	0.62		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 21:29	1
Nickel	0.15		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 21:29	1
Selenium	<0.050		0.050	0.010	mg/L		10/10/13 09:00	10/10/13 21:29	1
Silver	<0.025		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 21:29	1
Zinc	1.4	B	0.10	0.020	mg/L		10/10/13 09:00	10/10/13 21:29	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/16/13 09:30	10/16/13 16:00	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/10/13 09:00	10/10/13 19:37	1
Thallium	0.0023		0.0020	0.0020	mg/L		10/10/13 09:00	10/10/13 19:37	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00026	B	0.00020	0.000020	mg/L		10/10/13 15:40	10/11/13 13:58	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0081	mg/Kg	☼	10/01/13 15:30	10/02/13 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.48		0.200	0.200	SU			10/10/13 17:52	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B03-1

Lab Sample ID: 500-63639-13

Date Collected: 09/25/13 10:15

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0044		0.0042	0.0018	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	09/25/13 10:15	10/02/13 06:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/25/13 10:15	10/02/13 06:55	1
Dibromofluoromethane	104		75 - 120	09/25/13 10:15	10/02/13 06:55	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/25/13 10:15	10/02/13 06:55	1
Toluene-d8 (Surr)	94		75 - 122	09/25/13 10:15	10/02/13 06:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B03-1

Lab Sample ID: 500-63639-13

Date Collected: 09/25/13 10:15

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B03-1

Lab Sample ID: 500-63639-13

Date Collected: 09/25/13 10:15

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	10/03/13 07:30	10/09/13 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		25 - 110	10/03/13 07:30	10/09/13 19:33	1
Phenol-d5	73		31 - 110	10/03/13 07:30	10/09/13 19:33	1
Nitrobenzene-d5	77		25 - 115	10/03/13 07:30	10/09/13 19:33	1
2-Fluorobiphenyl	65		25 - 119	10/03/13 07:30	10/09/13 19:33	1
2,4,6-Tribromophenol	80		35 - 137	10/03/13 07:30	10/09/13 19:33	1
Terphenyl-d14	95		36 - 134	10/03/13 07:30	10/09/13 19:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7600	B	11	1.0	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Antimony	0.45	J	1.1	0.45	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Arsenic	6.0		0.55	0.11	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Barium	37		0.55	0.059	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Beryllium	0.43		0.22	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Boron	5.2		2.8	0.12	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Cadmium	0.19		0.11	0.014	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Calcium	52000		110	30	mg/Kg	☼	09/26/13 08:00	10/02/13 13:28	10
Chromium	13		0.55	0.064	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Cobalt	9.7		0.28	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Copper	22	B	0.55	0.049	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Iron	16000		11	4.6	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Lead	14		0.28	0.083	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Magnesium	19000	B	5.5	1.1	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Manganese	290	B	0.55	0.030	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Nickel	26		0.55	0.054	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Potassium	1200		28	1.7	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Selenium	0.21	J	0.55	0.20	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Sodium	360		55	7.4	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Vanadium	16		0.28	0.041	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1
Zinc	48	B	1.1	0.22	mg/Kg	☼	09/26/13 08:00	10/01/13 04:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/16/13 09:30	10/16/13 19:15	1
Boron	1.1		0.10	0.050	mg/L		10/16/13 09:30	10/16/13 19:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B03-1

Lab Sample ID: 500-63639-13

Date Collected: 09/25/13 10:15

Matrix: Solid

Date Received: 09/25/13 12:35

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 19:15	1
Iron	<0.20		0.20	0.20	mg/L		10/16/13 09:30	10/16/13 19:15	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/16/13 09:30	10/16/13 19:15	1
Manganese	0.34		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 19:15	1
Nickel	<0.025		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 19:15	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.5		0.50	0.010	mg/L		10/10/13 09:00	10/10/13 21:35	1
Beryllium	0.0055		0.0040	0.0040	mg/L		10/10/13 09:00	10/10/13 21:35	1
Boron	2.2		0.10	0.050	mg/L		10/10/13 09:00	10/10/13 21:35	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		10/10/13 09:00	10/10/13 21:35	1
Chromium	0.11		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 21:35	1
Cobalt	0.027		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 21:35	1
Iron	120		0.20	0.20	mg/L		10/10/13 09:00	10/10/13 21:35	1
Lead	0.059		0.0075	0.0050	mg/L		10/10/13 09:00	10/10/13 21:35	1
Manganese	0.47		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 21:35	1
Nickel	0.11		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 21:35	1
Selenium	<0.050		0.050	0.010	mg/L		10/10/13 09:00	10/10/13 21:35	1
Silver	<0.025		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 21:35	1
Zinc	1.2	B	0.10	0.020	mg/L		10/10/13 09:00	10/10/13 21:35	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/16/13 09:30	10/16/13 16:04	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/10/13 09:00	10/10/13 19:41	1
Thallium	0.0020		0.0020	0.0020	mg/L		10/10/13 09:00	10/10/13 19:41	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000020	mg/L		10/10/13 15:40	10/11/13 14:04	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0087	mg/Kg	☼	10/01/13 15:30	10/02/13 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.29		0.200	0.200	SU			10/10/13 17:56	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B03-2

Lab Sample ID: 500-63639-14

Date Collected: 09/25/13 10:20

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 85.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	09/25/13 10:20	10/02/13 07:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	09/25/13 10:20	10/02/13 07:17	1
Dibromofluoromethane	104		75 - 120	09/25/13 10:20	10/02/13 07:17	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	09/25/13 10:20	10/02/13 07:17	1
Toluene-d8 (Surr)	92		75 - 122	09/25/13 10:20	10/02/13 07:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B03-2

Lab Sample ID: 500-63639-14

Date Collected: 09/25/13 10:20

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B03-2

Lab Sample ID: 500-63639-14

Date Collected: 09/25/13 10:20

Matrix: Solid

Date Received: 09/25/13 12:35

Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	10/03/13 07:30	10/09/13 19:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		25 - 110				10/03/13 07:30	10/09/13 19:56	1
Phenol-d5	71		31 - 110				10/03/13 07:30	10/09/13 19:56	1
Nitrobenzene-d5	75		25 - 115				10/03/13 07:30	10/09/13 19:56	1
2-Fluorobiphenyl	62		25 - 119				10/03/13 07:30	10/09/13 19:56	1
2,4,6-Tribromophenol	68		35 - 137				10/03/13 07:30	10/09/13 19:56	1
Terphenyl-d14	98		36 - 134				10/03/13 07:30	10/09/13 19:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7100	B	12	1.1	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Antimony	<1.2		1.2	0.46	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Arsenic	6.9		0.58	0.11	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Barium	36		0.58	0.062	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Beryllium	0.39		0.23	0.020	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Boron	5.4		2.9	0.12	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Cadmium	0.26		0.12	0.015	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Calcium	72000		120	31	mg/Kg	☼	09/26/13 08:00	10/02/13 13:32	10
Chromium	12		0.58	0.067	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Cobalt	10		0.29	0.021	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Copper	19	B	0.58	0.051	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Iron	16000		12	4.7	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Lead	12		0.29	0.086	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Magnesium	24000	B	5.8	1.2	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Manganese	400	B	0.58	0.031	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Nickel	28		0.58	0.056	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Potassium	1300		29	1.7	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Selenium	0.38	J	0.58	0.20	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Sodium	110		58	7.7	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Thallium	0.28	J	0.58	0.24	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Vanadium	15		0.29	0.043	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1
Zinc	55	B	1.2	0.23	mg/Kg	☼	09/26/13 08:00	10/01/13 04:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.92		0.10	0.050	mg/L		10/16/13 09:30	10/16/13 19:21	1
Iron	<0.20		0.20	0.20	mg/L		10/16/13 09:30	10/16/13 19:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Client Sample ID: 846D-9-B03-2

Lab Sample ID: 500-63639-14

Date Collected: 09/25/13 10:20

Matrix: Solid

Date Received: 09/25/13 12:35

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		10/16/13 09:30	10/16/13 19:21	1
Manganese	0.72		0.025	0.010	mg/L		10/16/13 09:30	10/16/13 19:21	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.4		0.50	0.010	mg/L		10/10/13 09:00	10/10/13 21:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/10/13 09:00	10/10/13 21:41	1
Boron	2.3		0.10	0.050	mg/L		10/10/13 09:00	10/10/13 21:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/10/13 09:00	10/10/13 21:41	1
Chromium	0.038		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 21:41	1
Cobalt	0.0092	J	0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 21:41	1
Iron	33		0.20	0.20	mg/L		10/10/13 09:00	10/10/13 21:41	1
Lead	0.021		0.0075	0.0050	mg/L		10/10/13 09:00	10/10/13 21:41	1
Manganese	0.16		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 21:41	1
Nickel	0.033		0.025	0.010	mg/L		10/10/13 09:00	10/10/13 21:41	1
Selenium	<0.050		0.050	0.010	mg/L		10/10/13 09:00	10/10/13 21:41	1
Silver	<0.025		0.025	0.0050	mg/L		10/10/13 09:00	10/10/13 21:41	1
Zinc	1.1	B	0.10	0.020	mg/L		10/10/13 09:00	10/10/13 21:41	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/10/13 09:00	10/10/13 19:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/10/13 09:00	10/10/13 19:44	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/10/13 15:40	10/11/13 14:06	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0084	mg/Kg	☼	10/01/13 15:30	10/02/13 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.10		0.200	0.200	SU			10/10/13 18:00	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63639-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Name: <u>US6/IL7 Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63639</u> Sample Temp.: <u>31, 3, 4</u>											
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.				Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
ANALYSES																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	
9	846D-9-B01-1	9/25/13	9:40	S	X	X					X	X	X	X		0-5'	
10	846D-9-B01-2		9:45													5'-10'	
11	846D-9-B02-1		10:05													0-5'	
12	846D-9-B02-2		10:10													5-10'	
13	846D-9-B03-1		10:15													0-5'	
14	846D-9-B03-2		10:20	S	X	X					X	X	X	X		5'-10'	
Relinquished by: <u>William A. Mue (AEE)</u>		Date/Time: <u>9/25/13</u>	11:58					Received by: <u>[Signature]</u>	Date/Time: <u>9/25/13</u>	TA							
Relinquished by: <u>[Signature]</u>		Date/Time: <u>9/25/13</u>	1235					Received by: <u>[Signature]</u>	Date/Time: <u>9/25/13</u>	1235							
Relinquished by:		Date/Time:						Received by:	Date/Time:								



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Approximately 15610 to 15800 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59847 Longitude: -88.00003

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1970505161 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59847 Longitude: -88.00003

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-10-B01 THROUGH -B05 WERE SAMPLED ADJACENT TO ISGS SITE NO. 846D-10. SEE FIGURES 2 AND 3 AND TABLE 3d OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NO.: 500-63578-1

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

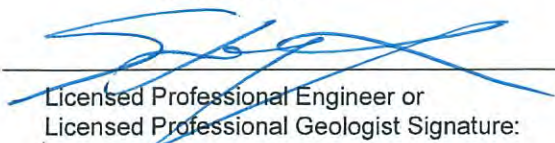
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

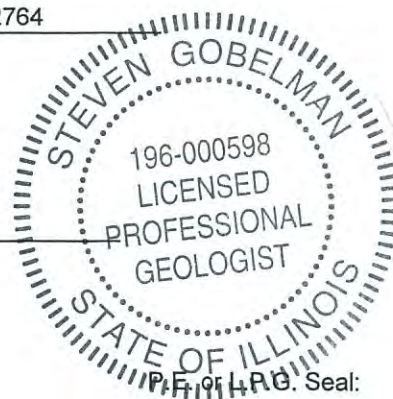
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

Date:



Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-10

Wooded Area

Sample ID	846D-10-B01-1	846D-10-B01-1 DUP	846D-10-B01-2	846D-10-B02-1	846D-10-B02-2	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	0-5	5-10	0-5	5-10						
Sample Date	9/24/2013	9/24/2013	9/24/2013	9/24/2013	9/24/2013						
PID	0	0	0	0	0						
Sample pH	8.53	8.13	8.16	8.86	7.79						
Matrix	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.											

Sample ID	846D-10-B03-1	846D-10-B03-2	846D-10-B04-1	846D-10-B04-2	846D-10-B05-1	846D-10-B05-2	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	5-10	0-5	5-10	0-5	5-10						
Sample Date	9/24/2013	9/24/2013	9/24/2013	9/24/2013	9/24/2013	9/24/2013						
PID	0	0	0	0	0	0						
Sample pH	8.67	8.62	8.19	7.93	8.35	8.38						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.												

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63578-1
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/17/2013 8:46:08 AM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B01-1

Lab Sample ID: 500-63578-1

Date Collected: 09/24/13 11:00

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 88.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0084		0.0037	0.0016	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Benzene	<0.0037		0.0037	0.00051	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Bromodichloromethane	<0.0037		0.0037	0.00064	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Bromoform	<0.0037		0.0037	0.00085	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Bromomethane	<0.0037		0.0037	0.0011	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Carbon disulfide	<0.0037		0.0037	0.00055	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Carbon tetrachloride	<0.0037		0.0037	0.00067	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Chlorobenzene	<0.0037		0.0037	0.00038	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Chloroethane	<0.0037		0.0037	0.0010	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Chloroform	<0.0037		0.0037	0.00043	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Chloromethane	<0.0037		0.0037	0.00078	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00052	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00049	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Dibromochloromethane	<0.0037		0.0037	0.00064	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
1,1-Dichloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
1,1-Dichloroethene	<0.0037		0.0037	0.00060	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
1,2-Dichloropropane	<0.0037		0.0037	0.00056	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.00049	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Ethylbenzene	<0.0037		0.0037	0.00075	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Methylene Chloride	<0.0037		0.0037	0.0010	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00097	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00061	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Styrene	<0.0037		0.0037	0.00049	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00075	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Tetrachloroethene	<0.0037		0.0037	0.00057	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Toluene	<0.0037		0.0037	0.00052	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00051	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.00066	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00050	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Trichloroethene	<0.0037		0.0037	0.00061	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Vinyl acetate	<0.0037		0.0037	0.00058	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Vinyl chloride	<0.0037		0.0037	0.00078	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1
Xylenes, Total	<0.0074		0.0074	0.00034	mg/Kg	☼	09/24/13 11:00	09/30/13 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/24/13 11:00	09/30/13 17:53	1
Dibromofluoromethane	98		75 - 120	09/24/13 11:00	09/30/13 17:53	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	09/24/13 11:00	09/30/13 17:53	1
Toluene-d8 (Surr)	95		75 - 122	09/24/13 11:00	09/30/13 17:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B01-1

Lab Sample ID: 500-63578-1

Date Collected: 09/24/13 11:00

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 88.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Fluoranthene	0.018	J	0.037	0.015	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Pyrene	0.026	J	0.037	0.013	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Benzo[a]anthracene	0.023	J	0.037	0.0078	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B01-1

Lab Sample ID: 500-63578-1

Date Collected: 09/24/13 11:00

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 88.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.036	J	0.037	0.0084	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Benzo[b]fluoranthene	0.039		0.037	0.0072	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Benzo[k]fluoranthene	0.022	J	0.037	0.0088	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Benzo[a]pyrene	0.026	J	0.037	0.0068	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Indeno[1,2,3-cd]pyrene	0.026	J	0.037	0.013	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Dibenz(a,h)anthracene	0.017	J	0.037	0.010	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Benzo[g,h,i]perylene	0.034	J	0.037	0.013	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	10/01/13 07:38	10/10/13 11:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	61		25 - 110				10/01/13 07:38	10/10/13 11:30	1
Phenol-d5	73		31 - 110				10/01/13 07:38	10/10/13 11:30	1
Nitrobenzene-d5	73		25 - 115				10/01/13 07:38	10/10/13 11:30	1
2-Fluorobiphenyl	85		25 - 119				10/01/13 07:38	10/10/13 11:30	1
2,4,6-Tribromophenol	86		35 - 137				10/01/13 07:38	10/10/13 11:30	1
Terphenyl-d14	127		36 - 134				10/01/13 07:38	10/10/13 11:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4100	B	11	1.0	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Antimony	0.60	J	1.1	0.45	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Arsenic	4.9		0.56	0.11	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Barium	38		0.56	0.060	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Beryllium	0.28		0.22	0.020	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Boron	7.1		2.8	0.12	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Cadmium	0.27		0.11	0.014	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Calcium	120000	B	110	30	mg/Kg	☼	09/25/13 08:17	09/28/13 14:00	10
Chromium	7.4		0.56	0.065	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Cobalt	6.4		0.28	0.020	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Copper	16	B	0.56	0.050	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Iron	10000		11	4.6	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Lead	30		0.28	0.084	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Magnesium	62000	B	56	12	mg/Kg	☼	09/25/13 08:17	09/28/13 14:00	10
Manganese	350	B	0.56	0.030	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Nickel	13		0.56	0.055	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Potassium	690	B	28	1.7	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Selenium	0.31	J	0.56	0.20	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Sodium	860		56	7.5	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Thallium	0.34	J	0.56	0.24	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Vanadium	9.4		0.28	0.041	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1
Zinc	48	B	1.1	0.23	mg/Kg	☼	09/25/13 08:17	09/26/13 12:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/15/13 09:00	10/15/13 15:43	1
Lead	0.035		0.0075	0.0050	mg/L		10/15/13 09:00	10/15/13 15:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B01-1

Lab Sample ID: 500-63578-1

Date Collected: 09/24/13 11:00

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	5.1		0.025	0.010	mg/L		10/15/13 09:00	10/15/13 15:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.95	B	0.50	0.010	mg/L		10/09/13 09:30	10/09/13 23:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 23:36	1
Boron	1.7		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 23:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 23:36	1
Chromium	0.053		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 23:36	1
Cobalt	0.031		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 23:36	1
Iron	69		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 23:36	1
Lead	0.056		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 23:36	1
Manganese	1.1		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 23:36	1
Nickel	0.076		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 23:36	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 23:36	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 23:36	1
Zinc	0.75		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 23:36	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/15/13 09:00	10/16/13 09:32	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 15:14	1
Thallium	0.0024		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 15:14	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000041	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 10:29	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.017	0.0080	mg/Kg	☼	09/27/13 15:40	09/30/13 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.53		0.200	0.200	SU			10/10/13 12:36	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B01-1 DUP

Lab Sample ID: 500-63578-2

Date Collected: 09/24/13 11:05

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Bromoform	<0.0041		0.0041	0.00093	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Chloromethane	<0.0041		0.0041	0.00085	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00053	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
1,1-Dichloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00053	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Ethylbenzene	<0.0041		0.0041	0.00082	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00067	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Styrene	<0.0041		0.0041	0.00053	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00082	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00055	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Vinyl chloride	<0.0041		0.0041	0.00085	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	09/24/13 11:05	09/30/13 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/24/13 11:05	09/30/13 18:16	1
Dibromofluoromethane	99		75 - 120	09/24/13 11:05	09/30/13 18:16	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	09/24/13 11:05	09/30/13 18:16	1
Toluene-d8 (Surr)	97		75 - 122	09/24/13 11:05	09/30/13 18:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B01-1 DUP

Lab Sample ID: 500-63578-2

Date Collected: 09/24/13 11:05

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Benzo[a]anthracene	0.0081	J	0.036	0.0077	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B01-1 DUP

Lab Sample ID: 500-63578-2

Date Collected: 09/24/13 11:05

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Benzo[b]fluoranthene	0.0082	J	0.036	0.0071	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Benzo[a]pyrene	0.0075	J	0.036	0.0067	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Dibenz(a,h)anthracene	0.011	J	0.036	0.010	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
Benzo[g,h,i]perylene	0.013	J	0.036	0.012	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	10/01/13 07:38	10/10/13 11:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	39		25 - 110	10/01/13 07:38	10/10/13 11:51	1
Phenol-d5	48		31 - 110	10/01/13 07:38	10/10/13 11:51	1
Nitrobenzene-d5	49		25 - 115	10/01/13 07:38	10/10/13 11:51	1
2-Fluorobiphenyl	62		25 - 119	10/01/13 07:38	10/10/13 11:51	1
2,4,6-Tribromophenol	68		35 - 137	10/01/13 07:38	10/10/13 11:51	1
Terphenyl-d14	92		36 - 134	10/01/13 07:38	10/10/13 11:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4100	B	11	1.0	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Antimony	0.65	J	1.1	0.46	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Arsenic	8.6		0.57	0.11	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Barium	32		0.57	0.061	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Beryllium	0.23		0.23	0.020	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Boron	4.8		2.8	0.12	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Cadmium	0.39		0.11	0.014	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Calcium	89000	B	110	31	mg/Kg	☼	09/25/13 08:17	09/28/13 14:04	10
Chromium	8.0		0.57	0.066	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Cobalt	12		0.28	0.020	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Copper	23	B	0.57	0.050	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Iron	17000		11	4.7	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Lead	15		0.28	0.085	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Magnesium	42000	B	5.7	1.2	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Manganese	560	B	0.57	0.031	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Nickel	24		0.57	0.056	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Potassium	810	B	28	1.7	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Selenium	0.22	J	0.57	0.20	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Sodium	390		57	7.6	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Thallium	0.51	J	0.57	0.24	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Vanadium	10		0.28	0.042	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1
Zinc	74	B	1.1	0.23	mg/Kg	☼	09/25/13 08:17	09/26/13 13:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.13		0.10	0.050	mg/L		10/15/13 09:00	10/15/13 16:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B01-1 DUP

Lab Sample ID: 500-63578-2

Date Collected: 09/24/13 11:05

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1	B	0.50	0.010	mg/L		10/09/13 09:30	10/09/13 23:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 23:43	1
Boron	2.7		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 23:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 23:43	1
Chromium	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 23:43	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 23:43	1
Iron	0.72		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 23:43	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 23:43	1
Manganese	0.068		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 23:43	1
Nickel	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 23:43	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 23:43	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 23:43	1
Zinc	0.97		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 23:43	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 15:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 15:18	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000023	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 10:30	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0084	mg/Kg	✱	09/27/13 15:40	09/30/13 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13		0.200	0.200	SU			10/10/13 12:39	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B01-2

Lab Sample ID: 500-63578-3

Date Collected: 09/24/13 11:10

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0045		0.0039	0.0017	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Benzene	<0.0039		0.0039	0.00054	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Bromodichloromethane	<0.0039		0.0039	0.00068	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Bromoform	<0.0039		0.0039	0.00090	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Bromomethane	<0.0039		0.0039	0.0012	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Carbon disulfide	<0.0039		0.0039	0.00059	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Carbon tetrachloride	<0.0039		0.0039	0.00071	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Chlorobenzene	<0.0039		0.0039	0.00040	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Chloroform	<0.0039		0.0039	0.00045	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Chloromethane	<0.0039		0.0039	0.00082	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00055	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00051	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Dibromochloromethane	<0.0039		0.0039	0.00068	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
1,1-Dichloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
1,1-Dichloroethene	<0.0039		0.0039	0.00063	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
1,2-Dichloropropane	<0.0039		0.0039	0.00060	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.00051	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Ethylbenzene	<0.0039		0.0039	0.00079	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
2-Hexanone	<0.0039		0.0039	0.0011	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Methylene Chloride	<0.0039		0.0039	0.0011	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0010	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00065	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Styrene	<0.0039		0.0039	0.00051	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
1,1,1,2-Tetrachloroethane	<0.0039		0.0039	0.00079	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Tetrachloroethene	<0.0039		0.0039	0.00060	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Toluene	<0.0039		0.0039	0.00055	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00054	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.00070	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00059	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00054	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Trichloroethene	<0.0039		0.0039	0.00065	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Vinyl acetate	<0.0039		0.0039	0.00062	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Vinyl chloride	<0.0039		0.0039	0.00082	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1
Xylenes, Total	<0.0078		0.0078	0.00036	mg/Kg	☼	09/24/13 11:10	09/30/13 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/24/13 11:10	09/30/13 18:40	1
Dibromofluoromethane	104		75 - 120	09/24/13 11:10	09/30/13 18:40	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	09/24/13 11:10	09/30/13 18:40	1
Toluene-d8 (Surr)	99		75 - 122	09/24/13 11:10	09/30/13 18:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B01-2

Lab Sample ID: 500-63578-3

Date Collected: 09/24/13 11:10

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Hexachlorobenzene	<0.077		0.077	0.0076	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Benzo[a]anthracene	0.0080	J	0.038	0.0080	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B01-2

Lab Sample ID: 500-63578-3

Date Collected: 09/24/13 11:10

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.0094	J	0.038	0.0087	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Benzo[b]fluoranthene	0.011	J	0.038	0.0074	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Benzo[a]pyrene	0.0082	J	0.038	0.0070	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Dibenz(a,h)anthracene	0.011	J	0.038	0.011	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
Benzo[g,h,i]perylene	0.018	J	0.038	0.013	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	10/01/13 07:38	10/10/13 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	10/01/13 07:38	10/10/13 12:13	1
Phenol-d5	62		31 - 110	10/01/13 07:38	10/10/13 12:13	1
Nitrobenzene-d5	66		25 - 115	10/01/13 07:38	10/10/13 12:13	1
2-Fluorobiphenyl	82		25 - 119	10/01/13 07:38	10/10/13 12:13	1
2,4,6-Tribromophenol	70		35 - 137	10/01/13 07:38	10/10/13 12:13	1
Terphenyl-d14	113		36 - 134	10/01/13 07:38	10/10/13 12:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4200	B	11	1.1	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Antimony	0.49	J	1.1	0.46	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Arsenic	10		0.57	0.11	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Barium	22		0.57	0.062	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Beryllium	0.23		0.23	0.020	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Boron	4.4		2.9	0.12	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Cadmium	0.39		0.11	0.015	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Calcium	80000	B	110	31	mg/Kg	☼	09/25/13 08:17	09/28/13 14:08	10
Chromium	8.3		0.57	0.067	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Cobalt	9.8		0.29	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Copper	28	B	0.57	0.051	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Iron	17000		11	4.7	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Lead	14		0.29	0.086	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Magnesium	41000	B	5.7	1.2	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Manganese	490	B	0.57	0.031	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Nickel	22		0.57	0.056	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Potassium	850	B	29	1.7	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Selenium	0.29	J	0.57	0.20	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Silver	0.022	J B	0.29	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Sodium	300		57	7.7	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Thallium	0.66		0.57	0.24	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Vanadium	11		0.29	0.043	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1
Zinc	71	B	1.1	0.23	mg/Kg	☼	09/25/13 08:17	09/26/13 13:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/15/13 09:00	10/15/13 16:14	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/15/13 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B01-2

Lab Sample ID: 500-63578-3

Date Collected: 09/24/13 11:10

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.0		0.025	0.010	mg/L		10/15/13 09:00	10/15/13 16:14	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.23	J B	0.50	0.010	mg/L		10/09/13 09:30	10/09/13 23:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 23:49	1
Boron	0.11		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 23:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 23:49	1
Chromium	0.042		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 23:49	1
Cobalt	0.028		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 23:49	1
Iron	49		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 23:49	1
Lead	0.031		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 23:49	1
Manganese	0.39		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 23:49	1
Nickel	0.063		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 23:49	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 23:49	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 23:49	1
Zinc	0.22		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 23:49	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 15:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 15:21	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 10:40	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0084	mg/Kg	☼	09/27/13 15:40	09/30/13 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.16		0.200	0.200	SU			10/10/13 12:42	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B02-1

Lab Sample ID: 500-63578-4

Date Collected: 09/24/13 10:45

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0040		0.0040	0.0017	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Bromoform	<0.0040		0.0040	0.00092	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Chlorobenzene	<0.0040		0.0040	0.00040	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Chloromethane	<0.0040		0.0040	0.00084	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00052	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Dibromochloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
1,1-Dichloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
1,1-Dichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00052	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Ethylbenzene	<0.0040		0.0040	0.00081	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
2-Hexanone	<0.0040		0.0040	0.0011	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0010	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00066	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Styrene	<0.0040		0.0040	0.00052	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Tetrachloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00054	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Vinyl chloride	<0.0040		0.0040	0.00084	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1
Xylenes, Total	<0.0080		0.0080	0.00036	mg/Kg	☼	09/24/13 10:45	09/30/13 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/24/13 10:45	09/30/13 19:03	1
Dibromofluoromethane	98		75 - 120	09/24/13 10:45	09/30/13 19:03	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	09/24/13 10:45	09/30/13 19:03	1
Toluene-d8 (Surr)	96		75 - 122	09/24/13 10:45	09/30/13 19:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B02-1

Lab Sample ID: 500-63578-4

Date Collected: 09/24/13 10:45

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B02-1

Lab Sample ID: 500-63578-4

Date Collected: 09/24/13 10:45

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.0095	J	0.038	0.0087	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Benzo[b]fluoranthene	0.010	J	0.038	0.0075	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Benzo[a]pyrene	0.0085	J	0.038	0.0070	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	10/01/13 07:38	10/10/13 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		25 - 110				10/01/13 07:38	10/10/13 12:56	1
Phenol-d5	51		31 - 110				10/01/13 07:38	10/10/13 12:56	1
Nitrobenzene-d5	60		25 - 115				10/01/13 07:38	10/10/13 12:56	1
2-Fluorobiphenyl	75		25 - 119				10/01/13 07:38	10/10/13 12:56	1
2,4,6-Tribromophenol	57		35 - 137				10/01/13 07:38	10/10/13 12:56	1
Terphenyl-d14	97		36 - 134				10/01/13 07:38	10/10/13 12:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6400	B	11	1.0	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Antimony	0.51	J	1.1	0.46	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Arsenic	7.9		0.57	0.11	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Barium	27		0.57	0.061	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Beryllium	0.34		0.23	0.020	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Boron	5.2		2.8	0.12	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Cadmium	0.30		0.11	0.014	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Calcium	65000	B	110	31	mg/Kg	☼	09/25/13 08:17	09/28/13 14:12	10
Chromium	11		0.57	0.066	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Cobalt	11		0.28	0.020	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Copper	24	B	0.57	0.051	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Iron	17000		11	4.7	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Lead	15		0.28	0.085	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Magnesium	30000	B	5.7	1.2	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Manganese	430	B	0.57	0.031	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Nickel	26		0.57	0.056	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Potassium	1100	B	28	1.7	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Selenium	0.34	J	0.57	0.20	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Sodium	1100		57	7.6	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Thallium	0.26	J	0.57	0.24	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Vanadium	14		0.28	0.042	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1
Zinc	65	B	1.1	0.23	mg/Kg	☼	09/25/13 08:17	09/26/13 13:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.81		0.10	0.050	mg/L		10/15/13 09:00	10/15/13 16:35	1
Iron	0.33		0.20	0.20	mg/L		10/15/13 09:00	10/15/13 16:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B02-1

Lab Sample ID: 500-63578-4

Date Collected: 09/24/13 10:45

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/15/13 16:35	1
Manganese	0.50		0.025	0.010	mg/L		10/15/13 09:00	10/15/13 16:35	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2	B	0.50	0.010	mg/L		10/09/13 09:30	10/09/13 23:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 23:56	1
Boron	2.3		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 23:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 23:56	1
Chromium	0.052		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 23:56	1
Cobalt	0.015	J	0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 23:56	1
Iron	53		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 23:56	1
Lead	0.026		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 23:56	1
Manganese	0.28		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 23:56	1
Nickel	0.053		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 23:56	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 23:56	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 23:56	1
Zinc	0.95		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 23:56	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 15:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 15:25	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000092	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 10:42	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0084	mg/Kg	☼	09/27/13 15:40	09/30/13 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.86		0.200	0.200	SU			10/10/13 12:46	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B02-2

Lab Sample ID: 500-63578-5

Date Collected: 09/24/13 10:50

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 82.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011		0.0043	0.0018	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Bromoform	<0.0043		0.0043	0.00098	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Dibromochloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Ethylbenzene	<0.0043		0.0043	0.00086	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00086	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Tetrachloroethene	<0.0043		0.0043	0.00065	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	09/24/13 10:50	09/30/13 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/24/13 10:50	09/30/13 19:26	1
Dibromofluoromethane	103		75 - 120	09/24/13 10:50	09/30/13 19:26	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/24/13 10:50	09/30/13 19:26	1
Toluene-d8 (Surr)	97		75 - 122	09/24/13 10:50	09/30/13 19:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B02-2

Lab Sample ID: 500-63578-5

Date Collected: 09/24/13 10:50

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Hexachlorobenzene	<0.077		0.077	0.0076	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Benzo[a]anthracene	0.014	J	0.038	0.0080	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B02-2

Lab Sample ID: 500-63578-5

Date Collected: 09/24/13 10:50

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.026	J	0.038	0.0087	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Benzo[b]fluoranthene	0.034	J	0.038	0.0075	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Benzo[k]fluoranthene	0.016	J	0.038	0.0092	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Benzo[a]pyrene	0.019	J	0.038	0.0070	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.038	0.013	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
Benzo[g,h,i]perylene	0.022	J	0.038	0.013	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	10/01/13 07:38	10/10/13 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		25 - 110	10/01/13 07:38	10/10/13 13:17	1
Phenol-d5	54		31 - 110	10/01/13 07:38	10/10/13 13:17	1
Nitrobenzene-d5	54		25 - 115	10/01/13 07:38	10/10/13 13:17	1
2-Fluorobiphenyl	69		25 - 119	10/01/13 07:38	10/10/13 13:17	1
2,4,6-Tribromophenol	73		35 - 137	10/01/13 07:38	10/10/13 13:17	1
Terphenyl-d14	108		36 - 134	10/01/13 07:38	10/10/13 13:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7400	B	12	1.1	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Antimony	0.60	J	1.2	0.47	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Arsenic	8.5		0.58	0.12	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Barium	37		0.58	0.062	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Beryllium	0.40		0.23	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Boron	4.6		2.9	0.12	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Cadmium	0.27		0.12	0.015	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Calcium	62000	B	120	32	mg/Kg	☼	09/25/13 08:17	09/28/13 14:16	10
Chromium	13		0.58	0.068	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Cobalt	11		0.29	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Copper	25	B	0.58	0.052	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Iron	19000		12	4.8	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Lead	15		0.29	0.087	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Magnesium	25000	B	5.8	1.2	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Manganese	350	B	0.58	0.032	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Nickel	28		0.58	0.057	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Potassium	1000	B	29	1.8	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Selenium	0.23	J	0.58	0.21	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Sodium	1100		58	7.8	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Thallium	0.25	J	0.58	0.25	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Vanadium	16		0.29	0.043	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1
Zinc	63	B	1.2	0.24	mg/Kg	☼	09/25/13 08:17	09/26/13 13:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/15/13 09:00	10/15/13 16:41	1
Boron	0.97		0.10	0.050	mg/L		10/15/13 09:00	10/15/13 16:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B02-2

Lab Sample ID: 500-63578-5

Date Collected: 09/24/13 10:50

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.53		0.20	0.20	mg/L		10/15/13 09:00	10/15/13 16:41	1
Lead	0.0061	J	0.0075	0.0050	mg/L		10/15/13 09:00	10/15/13 16:41	1
Manganese	7.6		0.025	0.010	mg/L		10/15/13 09:00	10/15/13 16:41	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.4	B	0.50	0.010	mg/L		10/09/13 09:30	10/10/13 00:02	1
Beryllium	0.0045		0.0040	0.0040	mg/L		10/09/13 09:30	10/10/13 00:02	1
Boron	2.6		0.10	0.050	mg/L		10/09/13 09:30	10/10/13 00:02	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		10/09/13 09:30	10/10/13 00:02	1
Chromium	0.082		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:02	1
Cobalt	0.027		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 00:02	1
Iron	88		0.20	0.20	mg/L		10/09/13 09:30	10/10/13 00:02	1
Lead	0.040		0.0075	0.0050	mg/L		10/09/13 09:30	10/10/13 00:02	1
Manganese	0.88		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:02	1
Nickel	0.095		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:02	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/10/13 00:02	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 00:02	1
Zinc	1.1		0.10	0.020	mg/L		10/09/13 09:30	10/10/13 00:02	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/15/13 09:00	10/16/13 09:52	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 15:28	1
Thallium	0.0022		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 15:28	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00015	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 10:44	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	0.0095	mg/Kg	☼	09/27/13 15:40	09/30/13 12:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.79		0.200	0.200	SU			10/10/13 12:49	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B03-1

Lab Sample ID: 500-63578-6

Date Collected: 09/24/13 10:35

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 84.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	09/24/13 10:35	09/30/13 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/24/13 10:35	09/30/13 19:49	1
Dibromofluoromethane	99		75 - 120	09/24/13 10:35	09/30/13 19:49	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	09/24/13 10:35	09/30/13 19:49	1
Toluene-d8 (Surr)	96		75 - 122	09/24/13 10:35	09/30/13 19:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B03-1

Lab Sample ID: 500-63578-6

Date Collected: 09/24/13 10:35

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 84.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Hexachlorobenzene	<0.077		0.077	0.0076	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B03-1

Lab Sample ID: 500-63578-6

Date Collected: 09/24/13 10:35

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 84.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	10/01/13 07:38	10/10/13 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	10/01/13 07:38	10/10/13 14:21	1
Phenol-d5	57		31 - 110	10/01/13 07:38	10/10/13 14:21	1
Nitrobenzene-d5	66		25 - 115	10/01/13 07:38	10/10/13 14:21	1
2-Fluorobiphenyl	73		25 - 119	10/01/13 07:38	10/10/13 14:21	1
2,4,6-Tribromophenol	62		35 - 137	10/01/13 07:38	10/10/13 14:21	1
Terphenyl-d14	90		36 - 134	10/01/13 07:38	10/10/13 14:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7400	B	12	1.1	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Arsenic	7.9		0.58	0.12	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Barium	35		0.58	0.062	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Beryllium	0.42		0.23	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Boron	4.7		2.9	0.12	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Cadmium	0.23		0.12	0.015	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Calcium	49000	B	120	32	mg/Kg	☼	09/25/13 08:17	09/28/13 14:27	10
Chromium	13		0.58	0.068	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Cobalt	11		0.29	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Copper	24	B	0.58	0.052	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Iron	18000		12	4.8	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Lead	17		0.29	0.087	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Magnesium	21000	B	5.8	1.2	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Manganese	320	B	0.58	0.032	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Nickel	27		0.58	0.057	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Potassium	1100	B	29	1.8	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Sodium	1200		58	7.8	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Thallium	<0.58		0.58	0.25	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Vanadium	16		0.29	0.043	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1
Zinc	59	B	1.2	0.24	mg/Kg	☼	09/25/13 08:17	09/26/13 13:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/15/13 09:00	10/15/13 16:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/15/13 09:00	10/15/13 16:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B03-1

Lab Sample ID: 500-63578-6

Date Collected: 09/24/13 10:35

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		10/15/13 09:00	10/15/13 16:47	1
Iron	0.25		0.20	0.20	mg/L		10/15/13 09:00	10/15/13 16:47	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/15/13 16:47	1
Manganese	0.64		0.025	0.010	mg/L		10/15/13 09:00	10/15/13 16:47	1
Nickel	<0.025		0.025	0.010	mg/L		10/15/13 09:00	10/15/13 16:47	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3	B	0.50	0.010	mg/L		10/09/13 09:30	10/10/13 00:09	1
Beryllium	0.0071		0.0040	0.0040	mg/L		10/09/13 09:30	10/10/13 00:09	1
Boron	1.8		0.10	0.050	mg/L		10/09/13 09:30	10/10/13 00:09	1
Cadmium	0.0054		0.0050	0.0020	mg/L		10/09/13 09:30	10/10/13 00:09	1
Chromium	0.14		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:09	1
Cobalt	0.048		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 00:09	1
Iron	170		0.20	0.20	mg/L		10/09/13 09:30	10/10/13 00:09	1
Lead	0.092		0.0075	0.0050	mg/L		10/09/13 09:30	10/10/13 00:09	1
Manganese	0.71		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:09	1
Nickel	0.17		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:09	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/10/13 00:09	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 00:09	1
Zinc	1.1		0.10	0.020	mg/L		10/09/13 09:30	10/10/13 00:09	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/15/13 09:00	10/16/13 09:56	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 15:39	1
Thallium	0.0046		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 15:39	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00036		0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 10:46	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0086	mg/Kg	☼	09/27/13 15:40	09/30/13 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.67		0.200	0.200	SU			10/10/13 12:53	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B03-2

Lab Sample ID: 500-63578-7

Date Collected: 09/24/13 10:40

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 81.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1
Xylenes, Total	<0.0094		0.0094	0.00042	mg/Kg	☼	09/24/13 10:40	09/30/13 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	09/24/13 10:40	09/30/13 20:11	1
Dibromofluoromethane	101		75 - 120	09/24/13 10:40	09/30/13 20:11	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	09/24/13 10:40	09/30/13 20:11	1
Toluene-d8 (Surr)	93		75 - 122	09/24/13 10:40	09/30/13 20:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	10/01/13 07:38	10/08/13 19:01	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	10/01/13 07:38	10/08/13 19:01	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	10/01/13 07:38	10/08/13 19:01	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	10/01/13 07:38	10/08/13 19:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B03-2

Lab Sample ID: 500-63578-7

Date Collected: 09/24/13 10:40

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Isophorone	<0.20		0.20	0.045	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
3-Nitroaniline	<0.40		0.40	0.079	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.099	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Anthracene	<0.040		0.040	0.0096	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Carbazole	<0.20		0.20	0.057	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Pyrene	<0.040		0.040	0.015	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	*	10/01/13 07:38	10/08/13 19:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B03-2

Lab Sample ID: 500-63578-7

Date Collected: 09/24/13 10:40

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0092	mg/Kg	☼	10/01/13 07:38	10/08/13 19:01	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	10/01/13 07:38	10/08/13 19:01	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	10/01/13 07:38	10/08/13 19:01	1
Di-n-octyl phthalate	<0.20		0.20	0.083	mg/Kg	☼	10/01/13 07:38	10/08/13 19:01	1
Benzo[b]fluoranthene	<0.040		0.040	0.0079	mg/Kg	☼	10/01/13 07:38	10/08/13 19:01	1
Benzo[k]fluoranthene	<0.040		0.040	0.0097	mg/Kg	☼	10/01/13 07:38	10/08/13 19:01	1
Benzo[a]pyrene	<0.040		0.040	0.0074	mg/Kg	☼	10/01/13 07:38	10/08/13 19:01	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	10/01/13 07:38	10/08/13 19:01	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	10/01/13 07:38	10/08/13 19:01	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	10/01/13 07:38	10/08/13 19:01	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	10/01/13 07:38	10/08/13 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		25 - 110	10/01/13 07:38	10/08/13 19:01	1
Phenol-d5	54		31 - 110	10/01/13 07:38	10/08/13 19:01	1
Nitrobenzene-d5	46		25 - 115	10/01/13 07:38	10/08/13 19:01	1
2-Fluorobiphenyl	47		25 - 119	10/01/13 07:38	10/08/13 19:01	1
2,4,6-Tribromophenol	80		35 - 137	10/01/13 07:38	10/08/13 19:01	1
Terphenyl-d14	105		36 - 134	10/01/13 07:38	10/08/13 19:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9500	B	12	1.1	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Antimony	0.47	J	1.2	0.47	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Arsenic	8.8		0.59	0.12	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Barium	53		0.59	0.063	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Beryllium	0.51		0.24	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Boron	4.4		3.0	0.12	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Cadmium	0.27		0.12	0.015	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Calcium	31000	B	12	3.2	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Chromium	16		0.59	0.069	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Cobalt	14		0.30	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Copper	28	B	0.59	0.052	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Iron	21000		12	4.9	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Lead	17		0.30	0.088	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Magnesium	15000	B	5.9	1.2	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Manganese	460	B	0.59	0.032	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Nickel	38		0.59	0.058	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Potassium	1200	B	30	1.8	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Sodium	760		59	7.9	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Thallium	0.47	J	0.59	0.25	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Vanadium	19		0.30	0.044	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1
Zinc	68	B	1.2	0.24	mg/Kg	☼	09/25/13 08:17	09/26/13 13:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/15/13 09:00	10/15/13 16:53	1
Boron	1.0		0.10	0.050	mg/L		10/15/13 09:00	10/15/13 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B03-2

Lab Sample ID: 500-63578-7

Date Collected: 09/24/13 10:40

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/15/13 09:00	10/15/13 16:53	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/15/13 16:53	1
Manganese	0.47		0.025	0.010	mg/L		10/15/13 09:00	10/15/13 16:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3	B	0.50	0.010	mg/L		10/09/13 09:30	10/10/13 00:15	1
Beryllium	0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/10/13 00:15	1
Boron	2.3		0.10	0.050	mg/L		10/09/13 09:30	10/10/13 00:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/10/13 00:15	1
Chromium	0.079		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:15	1
Cobalt	0.020	J	0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 00:15	1
Iron	81		0.20	0.20	mg/L		10/09/13 09:30	10/10/13 00:15	1
Lead	0.034		0.0075	0.0050	mg/L		10/09/13 09:30	10/10/13 00:15	1
Manganese	0.34		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:15	1
Nickel	0.087		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:15	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/10/13 00:15	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 00:15	1
Zinc	0.98		0.10	0.020	mg/L		10/09/13 09:30	10/10/13 00:15	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/15/13 09:00	10/16/13 09:59	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 15:42	1
Thallium	0.0021		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 15:42	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 10:48	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0088	mg/Kg	☼	09/27/13 15:40	09/30/13 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.62		0.200	0.200	SU			10/10/13 12:56	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B04-1

Lab Sample ID: 500-63578-8

Date Collected: 09/24/13 10:20

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 84.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0048		0.0044	0.0019	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	09/24/13 10:20	09/30/13 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/24/13 10:20	09/30/13 20:35	1
Dibromofluoromethane	101		75 - 120	09/24/13 10:20	09/30/13 20:35	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/24/13 10:20	09/30/13 20:35	1
Toluene-d8 (Surr)	94		75 - 122	09/24/13 10:20	09/30/13 20:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B04-1

Lab Sample ID: 500-63578-8

Date Collected: 09/24/13 10:20

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B04-1

Lab Sample ID: 500-63578-8

Date Collected: 09/24/13 10:20

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	10/01/13 07:38	10/08/13 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		25 - 110	10/01/13 07:38	10/08/13 19:21	1
Phenol-d5	61		31 - 110	10/01/13 07:38	10/08/13 19:21	1
Nitrobenzene-d5	54		25 - 115	10/01/13 07:38	10/08/13 19:21	1
2-Fluorobiphenyl	53		25 - 119	10/01/13 07:38	10/08/13 19:21	1
2,4,6-Tribromophenol	73		35 - 137	10/01/13 07:38	10/08/13 19:21	1
Terphenyl-d14	95		36 - 134	10/01/13 07:38	10/08/13 19:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8400	B	12	1.1	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Antimony	<1.2		1.2	0.46	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Arsenic	7.5		0.58	0.11	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Barium	47		0.58	0.062	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Beryllium	0.42		0.23	0.020	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Boron	4.8		2.9	0.12	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Cadmium	0.22		0.12	0.015	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Calcium	49000	B	120	31	mg/Kg	☼	09/25/13 08:17	09/28/13 14:31	10
Chromium	15		0.58	0.067	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Cobalt	12		0.29	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Copper	23	B	0.58	0.051	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Iron	18000		12	4.7	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Lead	13		0.29	0.086	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Magnesium	21000	B	5.8	1.2	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Manganese	390	B	0.58	0.031	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Nickel	34		0.58	0.056	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Potassium	1100	B	29	1.7	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Selenium	<0.58		0.58	0.20	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Sodium	540		58	7.7	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Thallium	<0.58		0.58	0.24	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Vanadium	17		0.29	0.043	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1
Zinc	56	B	1.2	0.23	mg/Kg	☼	09/25/13 08:17	09/26/13 13:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.27		0.20	0.20	mg/L		10/15/13 09:00	10/15/13 17:00	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/15/13 17:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B04-1

Lab Sample ID: 500-63578-8

Date Collected: 09/24/13 10:20

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.58		0.025	0.010	mg/L		10/15/13 09:00	10/15/13 17:00	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1	B	0.50	0.010	mg/L		10/09/13 09:30	10/10/13 00:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/10/13 00:21	1
Boron	1.9		0.10	0.050	mg/L		10/09/13 09:30	10/10/13 00:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/10/13 00:21	1
Chromium	0.072		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:21	1
Cobalt	0.017	J	0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 00:21	1
Iron	68		0.20	0.20	mg/L		10/09/13 09:30	10/10/13 00:21	1
Lead	0.030		0.0075	0.0050	mg/L		10/09/13 09:30	10/10/13 00:21	1
Manganese	0.29		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:21	1
Nickel	0.070		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:21	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/10/13 00:21	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 00:21	1
Zinc	0.79		0.10	0.020	mg/L		10/09/13 09:30	10/10/13 00:21	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 15:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 15:46	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 10:50	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.018	0.0083	mg/Kg	☼	09/27/13 15:40	09/30/13 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU			10/10/13 12:59	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B04-2

Lab Sample ID: 500-63578-9

Date Collected: 09/24/13 10:25

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0040		0.0040	0.0017	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Bromoform	<0.0040		0.0040	0.00092	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Chloromethane	<0.0040		0.0040	0.00084	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
1,1-Dichloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
1,1-Dichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Ethylbenzene	<0.0040		0.0040	0.00081	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0011	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00066	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Tetrachloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Vinyl chloride	<0.0040		0.0040	0.00084	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1
Xylenes, Total	<0.0080		0.0080	0.00036	mg/Kg	☼	09/24/13 10:25	09/30/13 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/24/13 10:25	09/30/13 20:57	1
Dibromofluoromethane	98		75 - 120	09/24/13 10:25	09/30/13 20:57	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	09/24/13 10:25	09/30/13 20:57	1
Toluene-d8 (Surr)	96		75 - 122	09/24/13 10:25	09/30/13 20:57	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B04-2

Lab Sample ID: 500-63578-9

Date Collected: 09/24/13 10:25

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
2-Nitrophenol	<0.36		0.36	0.058	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B04-2

Lab Sample ID: 500-63578-9

Date Collected: 09/24/13 10:25

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Benzo[b]fluoranthene	0.0074	J	0.036	0.0071	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Benzo[k]fluoranthene	<0.036		0.036	0.0088	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1
3 & 4 Methylphenol	<0.18		0.18	0.070	mg/Kg	☼	10/01/13 07:38	10/08/13 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110	10/01/13 07:38	10/08/13 19:40	1
Phenol-d5	56		31 - 110	10/01/13 07:38	10/08/13 19:40	1
Nitrobenzene-d5	45		25 - 115	10/01/13 07:38	10/08/13 19:40	1
2-Fluorobiphenyl	49		25 - 119	10/01/13 07:38	10/08/13 19:40	1
2,4,6-Tribromophenol	76		35 - 137	10/01/13 07:38	10/08/13 19:40	1
Terphenyl-d14	100		36 - 134	10/01/13 07:38	10/08/13 19:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6000	B	11	1.0	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Antimony	0.50	J	1.1	0.46	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Arsenic	7.2		0.57	0.11	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Barium	32		0.57	0.061	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Beryllium	0.33		0.23	0.020	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Boron	4.3		2.8	0.12	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Cadmium	0.26		0.11	0.014	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Calcium	62000	B	110	31	mg/Kg	☼	09/25/13 08:17	09/28/13 14:35	10
Chromium	11		0.57	0.066	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Cobalt	11		0.28	0.020	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Copper	21	B	0.57	0.050	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Iron	16000		11	4.7	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Lead	12		0.28	0.085	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Magnesium	26000	B	5.7	1.2	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Manganese	370	B	0.57	0.031	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Nickel	24		0.57	0.056	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Potassium	920	B	28	1.7	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Sodium	370		57	7.6	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Vanadium	13		0.28	0.042	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1
Zinc	60	B	1.1	0.23	mg/Kg	☼	09/25/13 08:17	09/26/13 13:47	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.86	B	0.50	0.010	mg/L		10/09/13 09:30	10/10/13 00:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/10/13 00:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B04-2

Lab Sample ID: 500-63578-9

Date Collected: 09/24/13 10:25

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.8		0.10	0.050	mg/L		10/09/13 09:30	10/10/13 00:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/10/13 00:43	1
Chromium	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:43	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 00:43	1
Iron	2.2		0.20	0.20	mg/L		10/09/13 09:30	10/10/13 00:43	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/09/13 09:30	10/10/13 00:43	1
Manganese	0.050		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:43	1
Nickel	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:43	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/10/13 00:43	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 00:43	1
Zinc	0.62		0.10	0.020	mg/L		10/09/13 09:30	10/10/13 00:43	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 15:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 15:49	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 10:52	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.018	0.0086	mg/Kg	☼	09/27/13 15:40	09/30/13 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.93		0.200	0.200	SU			10/10/13 13:10	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B05-1

Lab Sample ID: 500-63578-10

Date Collected: 09/24/13 10:10

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	09/24/13 10:10	09/30/13 21:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/24/13 10:10	09/30/13 21:20	1
Dibromofluoromethane	105		75 - 120	09/24/13 10:10	09/30/13 21:20	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/24/13 10:10	09/30/13 21:20	1
Toluene-d8 (Surr)	97		75 - 122	09/24/13 10:10	09/30/13 21:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B05-1

Lab Sample ID: 500-63578-10

Date Collected: 09/24/13 10:10

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B05-1

Lab Sample ID: 500-63578-10

Date Collected: 09/24/13 10:10

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	10/01/13 07:38	10/10/13 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	10/01/13 07:38	10/10/13 14:43	1
Phenol-d5	60		31 - 110	10/01/13 07:38	10/10/13 14:43	1
Nitrobenzene-d5	63		25 - 115	10/01/13 07:38	10/10/13 14:43	1
2-Fluorobiphenyl	69		25 - 119	10/01/13 07:38	10/10/13 14:43	1
2,4,6-Tribromophenol	64		35 - 137	10/01/13 07:38	10/10/13 14:43	1
Terphenyl-d14	95		36 - 134	10/01/13 07:38	10/10/13 14:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	B	11	1.0	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Arsenic	8.6		0.57	0.11	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Barium	66		0.55	0.059	mg/Kg	☼	10/14/13 10:27	10/15/13 10:33	1
Beryllium	0.66		0.23	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Boron	7.7		2.8	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Cadmium	1.4		0.11	0.014	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Calcium	64000	B	110	31	mg/Kg	☼	09/25/13 09:12	10/14/13 15:08	10
Chromium	17		0.57	0.066	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Cobalt	11		0.28	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Copper	26	B	0.57	0.050	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Iron	20000		11	4.5	mg/Kg	☼	10/14/13 10:27	10/15/13 10:33	1
Lead	12		0.28	0.085	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Magnesium	23000	B	5.7	1.2	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Manganese	390	B	0.57	0.031	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Nickel	27	B	0.57	0.056	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Potassium	2100		28	1.7	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Sodium	1000		57	7.6	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Vanadium	21		0.28	0.042	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1
Zinc	47	B	1.1	0.23	mg/Kg	☼	09/25/13 09:12	10/12/13 01:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/15/13 09:00	10/15/13 17:06	1
Iron	<0.20		0.20	0.20	mg/L		10/15/13 09:00	10/15/13 17:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B05-1

Lab Sample ID: 500-63578-10

Date Collected: 09/24/13 10:10

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/15/13 17:06	1
Manganese	0.66		0.025	0.010	mg/L		10/15/13 09:00	10/15/13 17:06	1
Nickel	0.012	J	0.025	0.010	mg/L		10/15/13 09:00	10/15/13 17:06	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1	B	0.50	0.010	mg/L		10/09/13 09:30	10/10/13 00:50	1
Beryllium	0.0047		0.0040	0.0040	mg/L		10/09/13 09:30	10/10/13 00:50	1
Boron	1.5		0.10	0.050	mg/L		10/09/13 09:30	10/10/13 00:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/10/13 00:50	1
Chromium	0.092		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:50	1
Cobalt	0.023	J	0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 00:50	1
Iron	91		0.20	0.20	mg/L		10/09/13 09:30	10/10/13 00:50	1
Lead	0.037		0.0075	0.0050	mg/L		10/09/13 09:30	10/10/13 00:50	1
Manganese	0.37		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:50	1
Nickel	0.10		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:50	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/10/13 00:50	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 00:50	1
Zinc	0.71		0.10	0.020	mg/L		10/09/13 09:30	10/10/13 00:50	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/15/13 09:00	10/15/13 16:48	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 15:53	1
Thallium	0.0028		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 15:53	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00019	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 10:54	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0086	mg/Kg	☼	09/27/13 15:40	09/30/13 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.35		0.200	0.200	SU			10/10/13 13:13	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B05-2

Lab Sample ID: 500-63578-11

Date Collected: 09/24/13 10:15

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0038	J	0.0040	0.0017	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Bromodichloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Bromoform	<0.0040		0.0040	0.00093	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Carbon tetrachloride	<0.0040		0.0040	0.00074	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Chloroform	<0.0040		0.0040	0.00047	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Chloromethane	<0.0040		0.0040	0.00085	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
1,1-Dichloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
1,1-Dichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Ethylbenzene	<0.0040		0.0040	0.00082	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0011	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00067	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Tetrachloroethene	<0.0040		0.0040	0.00062	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Toluene	<0.0040		0.0040	0.00057	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Trichloroethene	<0.0040		0.0040	0.00067	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Vinyl acetate	<0.0040		0.0040	0.00064	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Vinyl chloride	<0.0040		0.0040	0.00085	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	09/24/13 10:15	09/30/13 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/24/13 10:15	09/30/13 21:43	1
Dibromofluoromethane	103		75 - 120	09/24/13 10:15	09/30/13 21:43	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134	09/24/13 10:15	09/30/13 21:43	1
Toluene-d8 (Surr)	96		75 - 122	09/24/13 10:15	09/30/13 21:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B05-2

Lab Sample ID: 500-63578-11

Date Collected: 09/24/13 10:15

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Acenaphthylene	<0.037		0.037	0.0087	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Anthracene	<0.037		0.037	0.0089	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B05-2

Lab Sample ID: 500-63578-11

Date Collected: 09/24/13 10:15

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Benzo[a]pyrene	<0.037		0.037	0.0069	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	10/01/13 07:38	10/08/13 20:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110				10/01/13 07:38	10/08/13 20:19	1
Phenol-d5	56		31 - 110				10/01/13 07:38	10/08/13 20:19	1
Nitrobenzene-d5	40		25 - 115				10/01/13 07:38	10/08/13 20:19	1
2-Fluorobiphenyl	40		25 - 119				10/01/13 07:38	10/08/13 20:19	1
2,4,6-Tribromophenol	75		35 - 137				10/01/13 07:38	10/08/13 20:19	1
Terphenyl-d14	99		36 - 134				10/01/13 07:38	10/08/13 20:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7000	B	11	1.0	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Arsenic	9.6		0.56	0.11	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Barium	26		0.57	0.061	mg/Kg	☼	10/14/13 10:27	10/15/13 10:40	1
Beryllium	0.46		0.23	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Boron	7.7		2.8	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Cadmium	1.2		0.11	0.014	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Calcium	85000	B	110	31	mg/Kg	☼	09/25/13 09:12	10/14/13 15:54	10
Chromium	12		0.56	0.066	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Cobalt	8.5		0.28	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Copper	23	B	0.56	0.050	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Iron	18000		11	4.7	mg/Kg	☼	10/14/13 10:27	10/15/13 10:40	1
Lead	11		0.28	0.084	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Magnesium	35000	B	5.6	1.2	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Manganese	460	B	0.56	0.031	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Nickel	21	B	0.56	0.055	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Potassium	1900		28	1.7	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Sodium	650		56	7.6	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Thallium	0.35	J	0.56	0.24	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Vanadium	15		0.28	0.042	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1
Zinc	52	B	1.1	0.23	mg/Kg	☼	09/25/13 09:12	10/12/13 02:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.43		0.20	0.20	mg/L		10/15/13 09:00	10/15/13 17:12	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/15/13 17:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Client Sample ID: 846D-10-B05-2

Lab Sample ID: 500-63578-11

Date Collected: 09/24/13 10:15

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	B	0.50	0.010	mg/L		10/09/13 09:30	10/10/13 00:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/10/13 00:56	1
Boron	1.9		0.10	0.050	mg/L		10/09/13 09:30	10/10/13 00:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/10/13 00:56	1
Chromium	0.023	J	0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:56	1
Cobalt	0.0078	J	0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 00:56	1
Iron	23		0.20	0.20	mg/L		10/09/13 09:30	10/10/13 00:56	1
Lead	0.011		0.0075	0.0050	mg/L		10/09/13 09:30	10/10/13 00:56	1
Manganese	0.12		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:56	1
Nickel	0.024	J	0.025	0.010	mg/L		10/09/13 09:30	10/10/13 00:56	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/10/13 00:56	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 00:56	1
Zinc	0.78		0.10	0.020	mg/L		10/09/13 09:30	10/10/13 00:56	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 16:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 16:24	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000037	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 10:56	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0079	mg/Kg	☼	10/01/13 15:30	10/02/13 10:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.38		0.200	0.200	SU			10/10/13 13:17	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact
 Andrews Engineering, Inc
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 Lab: Test America - Chicago
 Address: 2417 Bond Street
 University Park, IL 60484
 Phone: 708-534-5200
 Contact: Dick Wright
 email: richard.wright@testamericainc.com

Project Name: US6/IL7 Wilson Cook Co
 Project No.: IDOT 2013-023
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Sampler: AEI

COC No.: 1 of 1
 Lab Job No.: 500-63578
 Sample Temp: 34.38/32.35
 Matrix Key:

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

ANALYSES		VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBS	* Total Metals	SPLP** TCLP Metals	pH	% Solids	Waste Characterization	Comments
1	846D-10-B01-1	X	X					X	X	X	X		0-5'
2	846D-10-B01-1 DUP												0-5'
3	846D-10-B01-2												5-10'
4	846D-10-B02-1												0-5'
5	846D-10-B02-2												5-10'
6	846D-10-B03-1												0-5'
7	846D-10-B03-2												5-10'
8	846D-10-B04-1												0-5'
9	846D-10-B04-2												5-10'
10	846D-10-B05-1												0-5'
11	846D-10-B05-2												5-10'
12	846D-10-B06-1	X	X					X	X	X	X		0-5'

Relinquished by: John A. Wright (AEI) Date/Time: 9/24/13 4:05 Received by: [Signature] Date/Time: 9/24/13/1605
 Relinquished by: [Signature] Date/Time: 9/24/13/1600 Received by: [Signature] Date/Time: 9/25/13 0630
 Relinquished by: [Signature] Date/Time: [Blank] Received by: [Blank] Date/Time: [Blank]



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6 / I7 Willie & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEI</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63578</u> Sample Temp.: <u>34.38 (32) 35</u> Matrix Key: <ul style="list-style-type: none"> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other 																			
ANALYSES																						
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments						
13	846D-10-B06-1 DUP	9/24/13	10:00	S	X	X					X	X	X	X		0-5'						
14	846D-10-B06-2		10:05	S	X	X					X	X	X	X		5'-10'						
15	846D-10-B07-1		9:45	S	X	X					X	X	X	X		0-5'						
16	846D-10-B07-2	↓	9:50	S	X	X					X	X	X	X		5'-10'						
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																						
Relinquished by:											Date/Time:	9/24/13 4:05					Received by:			Date/Time:	9/24/13 10:30	
Relinquished by:											Date/Time:	9/24/13 10:30					Received by:			Date/Time:	9/25/13 06:30	
Relinquished by:											Date/Time:	9/24/13 10:30					Received by:			Date/Time:	9/25/13 06:30	



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>USEC/IL7 Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEI</u>	COC No.: _____ of _____ Lab Job No.: <u>500-63578</u> Sample Temp: <u>34.3, 8.3, 23.5</u> Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other														
SPECIAL INSTRUCTIONS: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																	
ANALYSES																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments	
23	846D-12-B01-1	9/24/13	2:00	S	X	X					X	X	X	X		0-6.5'	
24	846D-12-B01-DUP		2:05	S	X	X					X	X	X	X		0-6.5'	
25	846D-12-B01-2		2:10	S	X	X					X	X	X	X		6.5'-13'	
26	846D-12-B02-1		1:35	S	X	X					X	X	X	X		0-6.5'	
27	846D-12-B02-2	↓	1:40	S	X	X					X	X	X	X		6.5'-13'	
					Date/Time	4:05											
Relinquished by: <u>Kenn A. Wright (AEI)</u>					Date/Time	9/24/13	Received by: <u>[Signature]</u>										
Relinquished by: <u>[Signature]</u>					Date/Time	9/24/13	1640	Received by: <u>[Signature]</u>									
Relinquished by: <u>[Signature]</u>					Date/Time	9/25/13	0630	Received by: <u>[Signature]</u>									



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6 / IL7 Wheel & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEJ</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63578</u> Sample Temp.: <u>34.3/32.3/35</u> Matrix Key: <ul style="list-style-type: none"> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other 								
ANALYSES											
VOCs	SVOCs	BETX & MTBF	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
28	X	X	X	X	X	X	X	X	X	0-6.5'	
29	X	X	X	X	X	X	X	X	X	6.5'-13'	
30	X	X	X	X	X	X	X	X	X	0-6.5'	
31	X	X	X	X	X	X	X	X	X	6.5'-13'	
<p>Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.</p>											
Lab ID	Sample ID	Sample Date	Sample Time	Matrix							
28	840D-13-B01-1	9/24/13	12:50	S							
29	840D-13-B01-2		12:55	S							
30	840D-13-B02-1		1:20	S							
31	840D-13-B02-2	v	1:25	S							
Relinquished by: <u>Tim A. Wright (AEJ)</u>					Date/Time	9/24/13 4:05					
Relinquished by: <u>[Signature]</u>					Date/Time	9/24/13 1640					
Relinquished by: <u>[Signature]</u>					Date/Time	9/25/13 0630					



CHAIN OF CUSTODY RECORD

Client Contact
 Andrews Engineering, Inc
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 Lab: Test America - Chicago
 Address: 2417 Bond Street
 University Park, IL 60484
 Phone: 708-534-5200
 Contact: Dick Wright
 email: richard.wright@testamericainc.com

Project Name: US6 / IL7 Will o Cook C
 Project No.: IDOT 2013-023
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Sampler: AEI

COC No.: of
 Lab Job No.: 500-63578
 Sample Temp: 34.3, 3.2, 3.5
 Matrix Key:

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Matrix Key:
 W: Water
 S: Soil
 SL: Sludge
 S: Sediment
 L: Leachate
 DW: Drinking Water
 OL: Oil
 O: Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
1	846D-10-B01-1	9/24/13	11:00	S	X	X					X	X	X	X		0-5'
2	846D-10-B01-1 DUP		11:05													0-5'
3	846D-10-B01-2		11:10													S-10'
4	846D-10-B02-1		10:45													0-5'
5	846D-10-B02-2		10:50													S-10'
6	846D-10-B03-1		10:35													0-5'
7	846D-10-B03-2		10:40													S-10'
8	846D-10-B04-1		10:20													0-5'
9	846D-10-B04-2		10:25													S-10'
10	846D-10-B05-1		10:10													0-5'
11	846D-10-B05-2		10:15													S-10'
12	846D-10-B06-1		9:55	S	X	X					X	X	X	X		0-5'

Relinquished by: Alan A. Wright (AEI) Date/Time: 9/24/13 4:05 Received by: Date/Time: 9/25/13 11:00
 Relinquished by: Date/Time: Received by: Date/Time:
 Relinquished by: Date/Time: Received by: Date/Time:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15617 to 15753 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59827 Longitude: -88.00069
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)
 Latitude: 41.59827 Longitude: -88.00069

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-11-B01 THROUGH -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-11. SEE FIGURE 3 AND TABLE 3e OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-63578-2


IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

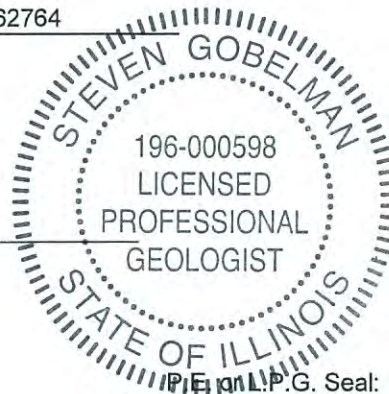
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment
 Street Address: 2300 South Dirksen Parkway
 City: Springfield State: IL Zip Code: 62764
 Phone: 217-785-4246

Steven Gobelman
 Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/11
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

**ISGS Site 846D-11
Residences**

Sample ID	846D-11-B01-1	846D-11-B01-2	846D-11-B02-1	846D-11-B02-2	846D-11-B03-1	846D-11-B03-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6.5	6.5-13	0-6.5	6.5-13	0-6.5	6.5-13						
Sample Date	9/24/2013	9/24/2013	9/24/2013	9/24/2013	9/24/2013	9/24/2013						
PID	0	0	0	0	0	0						
Sample pH	8.01	8.5	8.23	8.57	8.27	8.38						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63578-2
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/17/2013 8:46:32 AM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B01-1

Lab Sample ID: 500-63578-17

Date Collected: 09/24/13 15:20

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
1,1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	09/24/13 15:20	10/02/13 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/24/13 15:20	10/02/13 12:21	1
Dibromofluoromethane	99		75 - 120	09/24/13 15:20	10/02/13 12:21	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134	09/24/13 15:20	10/02/13 12:21	1
Toluene-d8 (Surr)	95		75 - 122	09/24/13 15:20	10/02/13 12:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B01-1

Lab Sample ID: 500-63578-17

Date Collected: 09/24/13 15:20

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B01-1

Lab Sample ID: 500-63578-17

Date Collected: 09/24/13 15:20

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	10/01/13 07:38	10/08/13 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		25 - 110	10/01/13 07:38	10/08/13 22:16	1
Phenol-d5	62		31 - 110	10/01/13 07:38	10/08/13 22:16	1
Nitrobenzene-d5	46		25 - 115	10/01/13 07:38	10/08/13 22:16	1
2-Fluorobiphenyl	46		25 - 119	10/01/13 07:38	10/08/13 22:16	1
2,4,6-Tribromophenol	76		35 - 137	10/01/13 07:38	10/08/13 22:16	1
Terphenyl-d14	119		36 - 134	10/01/13 07:38	10/08/13 22:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8300	B	11	1.0	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Arsenic	9.0		0.56	0.11	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Barium	42		0.55	0.059	mg/Kg	☼	10/14/13 10:27	10/15/13 11:17	1
Beryllium	0.52		0.22	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Boron	6.9		2.8	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Cadmium	1.1		0.11	0.014	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Calcium	66000	B	110	30	mg/Kg	☼	09/25/13 09:12	10/14/13 16:06	10
Chromium	13		0.56	0.065	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Cobalt	9.6		0.28	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Copper	26	B	0.56	0.049	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Iron	20000		11	4.5	mg/Kg	☼	10/14/13 10:27	10/15/13 11:17	1
Lead	19		0.28	0.083	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Magnesium	28000	B	5.6	1.1	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Manganese	370	B	0.56	0.030	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Nickel	24	B	0.56	0.055	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Potassium	1800		28	1.7	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Sodium	280		56	7.5	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Thallium	<0.56		0.56	0.23	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Vanadium	17		0.28	0.041	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1
Zinc	46	B	1.1	0.22	mg/Kg	☼	09/25/13 09:12	10/12/13 03:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.82		0.10	0.050	mg/L		10/15/13 09:00	10/15/13 17:58	1
Iron	0.22		0.20	0.20	mg/L		10/15/13 09:00	10/15/13 17:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B01-1

Lab Sample ID: 500-63578-17

Date Collected: 09/24/13 15:20

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1	B	0.50	0.010	mg/L		10/09/13 09:30	10/10/13 01:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/10/13 01:35	1
Boron	2.4		0.10	0.050	mg/L		10/09/13 09:30	10/10/13 01:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/10/13 01:35	1
Chromium	0.011	J	0.025	0.010	mg/L		10/09/13 09:30	10/10/13 01:35	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 01:35	1
Iron	6.3		0.20	0.20	mg/L		10/09/13 09:30	10/10/13 01:35	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/09/13 09:30	10/10/13 01:35	1
Manganese	0.051		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 01:35	1
Nickel	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 01:35	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/10/13 01:35	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 01:35	1
Zinc	0.89		0.10	0.020	mg/L		10/09/13 09:30	10/10/13 01:35	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 16:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 16:31	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000023	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 11:12	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0082	mg/Kg	☆	10/01/13 15:30	10/02/13 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01		0.200	0.200	SU			10/10/13 14:45	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B01-2

Lab Sample ID: 500-63578-18

Date Collected: 09/24/13 15:25

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0090		0.0039	0.0017	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Benzene	<0.0039		0.0039	0.00054	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Bromodichloromethane	<0.0039		0.0039	0.00068	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Bromoform	<0.0039		0.0039	0.00090	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Bromomethane	<0.0039		0.0039	0.0012	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Carbon disulfide	<0.0039		0.0039	0.00059	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Carbon tetrachloride	<0.0039		0.0039	0.00071	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Chlorobenzene	<0.0039		0.0039	0.00040	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Chloroform	<0.0039		0.0039	0.00045	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Chloromethane	<0.0039		0.0039	0.00082	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00055	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00051	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Dibromochloromethane	<0.0039		0.0039	0.00068	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
1,1-Dichloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
1,1,1-Dichloroethane	<0.0039		0.0039	0.00063	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
1,2-Dichloropropane	<0.0039		0.0039	0.00060	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.00051	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Ethylbenzene	<0.0039		0.0039	0.00079	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
2-Hexanone	<0.0039		0.0039	0.0011	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Methylene Chloride	<0.0039		0.0039	0.0011	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0010	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00065	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Styrene	<0.0039		0.0039	0.00051	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
1,1,1,2-Tetrachloroethane	<0.0039		0.0039	0.00079	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Tetrachloroethene	<0.0039		0.0039	0.00060	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Toluene	<0.0039		0.0039	0.00055	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00054	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.00070	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00059	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00053	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Trichloroethene	<0.0039		0.0039	0.00065	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Vinyl acetate	<0.0039		0.0039	0.00062	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Vinyl chloride	<0.0039		0.0039	0.00082	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1
Xylenes, Total	<0.0078		0.0078	0.00036	mg/Kg	☼	09/24/13 15:25	10/01/13 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	09/24/13 15:25	10/01/13 15:20	1
Dibromofluoromethane	93		75 - 120	09/24/13 15:25	10/01/13 15:20	1
1,2-Dichloroethane-d4 (Surr)	80		70 - 134	09/24/13 15:25	10/01/13 15:20	1
Toluene-d8 (Surr)	101		75 - 122	09/24/13 15:25	10/01/13 15:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B01-2

Lab Sample ID: 500-63578-18

Date Collected: 09/24/13 15:25

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
2-Nitrophenol	<0.36		0.36	0.058	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B01-2

Lab Sample ID: 500-63578-18

Date Collected: 09/24/13 15:25

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	10/01/13 07:38	10/08/13 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		25 - 110	10/01/13 07:38	10/08/13 22:35	1
Phenol-d5	56		31 - 110	10/01/13 07:38	10/08/13 22:35	1
Nitrobenzene-d5	43		25 - 115	10/01/13 07:38	10/08/13 22:35	1
2-Fluorobiphenyl	42		25 - 119	10/01/13 07:38	10/08/13 22:35	1
2,4,6-Tribromophenol	72		35 - 137	10/01/13 07:38	10/08/13 22:35	1
Terphenyl-d14	106		36 - 134	10/01/13 07:38	10/08/13 22:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9600	B	12	1.1	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Antimony	<1.2		1.2	0.46	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Arsenic	8.5		0.58	0.11	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Barium	39		0.55	0.059	mg/Kg	☼	10/14/13 10:27	10/15/13 11:38	1
Beryllium	0.60		0.23	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Boron	8.3		2.9	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Cadmium	1.2		0.12	0.015	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Calcium	53000	B	12	3.1	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Chromium	16		0.58	0.067	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Cobalt	11		0.29	0.021	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Copper	26	B	0.58	0.051	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Iron	18000		11	4.5	mg/Kg	☼	10/14/13 10:27	10/15/13 11:38	1
Lead	12		0.29	0.086	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Magnesium	24000	B	5.8	1.2	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Manganese	430	B	0.58	0.031	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Nickel	29	B	0.58	0.057	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Potassium	2400		29	1.7	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Selenium	<0.58		0.58	0.20	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Sodium	250		58	7.7	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Thallium	0.30	J	0.58	0.24	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Vanadium	19		0.29	0.043	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1
Zinc	49	B	1.2	0.23	mg/Kg	☼	09/25/13 09:12	10/12/13 03:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.30		0.20	0.20	mg/L		10/15/13 09:00	10/15/13 18:04	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/15/13 18:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B01-2

Lab Sample ID: 500-63578-18

Date Collected: 09/24/13 15:25

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.91		0.025	0.010	mg/L		10/15/13 09:00	10/15/13 18:04	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	B	0.50	0.010	mg/L		10/09/13 09:30	10/10/13 01:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/10/13 01:41	1
Boron	1.9		0.10	0.050	mg/L		10/09/13 09:30	10/10/13 01:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/10/13 01:41	1
Chromium	0.052		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 01:41	1
Cobalt	0.014	J	0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 01:41	1
Iron	49		0.20	0.20	mg/L		10/09/13 09:30	10/10/13 01:41	1
Lead	0.023		0.0075	0.0050	mg/L		10/09/13 09:30	10/10/13 01:41	1
Manganese	0.30		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 01:41	1
Nickel	0.052		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 01:41	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/10/13 01:41	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 01:41	1
Zinc	0.78		0.10	0.020	mg/L		10/09/13 09:30	10/10/13 01:41	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 16:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 16:35	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000053	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 11:14	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0091	mg/Kg	☼	10/01/13 15:30	10/02/13 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.50		0.200	0.200	SU			10/10/13 14:49	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B02-1

Lab Sample ID: 500-63578-19

Date Collected: 09/24/13 15:05

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 89.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0039		0.0039	0.0017	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Benzene	<0.0039		0.0039	0.00054	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Bromodichloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Bromoform	<0.0039		0.0039	0.00090	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Bromomethane	<0.0039		0.0039	0.0012	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Carbon disulfide	<0.0039		0.0039	0.00058	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Carbon tetrachloride	<0.0039		0.0039	0.00071	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Chlorobenzene	<0.0039		0.0039	0.00040	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Chloroform	<0.0039		0.0039	0.00045	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Chloromethane	<0.0039		0.0039	0.00082	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00055	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00051	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Dibromochloromethane	<0.0039		0.0039	0.00068	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
1,1-Dichloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
1,1-Dichloroethene	<0.0039		0.0039	0.00063	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
1,2-Dichloropropane	<0.0039		0.0039	0.00059	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.00051	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Ethylbenzene	<0.0039		0.0039	0.00079	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
2-Hexanone	<0.0039		0.0039	0.0011	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Methylene Chloride	<0.0039		0.0039	0.0011	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0010	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00065	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Styrene	<0.0039		0.0039	0.00051	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
1,1,1,2-Tetrachloroethane	<0.0039		0.0039	0.00079	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Tetrachloroethene	<0.0039		0.0039	0.00060	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Toluene	<0.0039		0.0039	0.00055	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00054	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.00070	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00053	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Trichloroethene	<0.0039		0.0039	0.00065	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Vinyl acetate	<0.0039		0.0039	0.00061	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Vinyl chloride	<0.0039		0.0039	0.00082	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1
Xylenes, Total	<0.0078		0.0078	0.00035	mg/Kg	☼	09/24/13 15:05	10/01/13 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	09/24/13 15:05	10/01/13 15:44	1
Dibromofluoromethane	89		75 - 120	09/24/13 15:05	10/01/13 15:44	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	09/24/13 15:05	10/01/13 15:44	1
Toluene-d8 (Surr)	100		75 - 122	09/24/13 15:05	10/01/13 15:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B02-1

Lab Sample ID: 500-63578-19

Date Collected: 09/24/13 15:05

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 89.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Hexachlorobenzene	<0.073		0.073	0.0072	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B02-1

Lab Sample ID: 500-63578-19

Date Collected: 09/24/13 15:05

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 89.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	10/01/13 07:38	10/08/13 22:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		25 - 110	10/01/13 07:38	10/08/13 22:54	1
Phenol-d5	56		31 - 110	10/01/13 07:38	10/08/13 22:54	1
Nitrobenzene-d5	44		25 - 115	10/01/13 07:38	10/08/13 22:54	1
2-Fluorobiphenyl	46		25 - 119	10/01/13 07:38	10/08/13 22:54	1
2,4,6-Tribromophenol	65		35 - 137	10/01/13 07:38	10/08/13 22:54	1
Terphenyl-d14	98		36 - 134	10/01/13 07:38	10/08/13 22:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7200	B	11	1.0	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Arsenic	8.2		0.55	0.11	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Barium	58		0.55	0.059	mg/Kg	☼	10/14/13 10:27	10/15/13 11:44	1
Beryllium	0.47		0.22	0.019	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Boron	5.3		2.7	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Cadmium	1.1		0.11	0.014	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Calcium	42000	B	11	3.0	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Chromium	11		0.55	0.064	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Cobalt	8.6		0.27	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Copper	26	B	0.55	0.049	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Iron	20000		11	4.6	mg/Kg	☼	10/14/13 10:27	10/15/13 11:44	1
Lead	18		0.27	0.082	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Magnesium	20000	B	5.5	1.1	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Manganese	340	B	0.55	0.030	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Nickel	23	B	0.55	0.054	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Potassium	1400		27	1.7	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Sodium	230		55	7.4	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Thallium	0.32	J	0.55	0.23	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Vanadium	15		0.27	0.041	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1
Zinc	42	B	1.1	0.22	mg/Kg	☼	09/25/13 09:12	10/12/13 03:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.0		0.10	0.050	mg/L		10/15/13 09:00	10/15/13 18:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B02-1

Lab Sample ID: 500-63578-19

Date Collected: 09/24/13 15:05

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.97	B	0.50	0.010	mg/L		10/09/13 09:30	10/10/13 02:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/10/13 02:03	1
Boron	2.0		0.10	0.050	mg/L		10/09/13 09:30	10/10/13 02:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/10/13 02:03	1
Chromium	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 02:03	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 02:03	1
Iron	1.4		0.20	0.20	mg/L		10/09/13 09:30	10/10/13 02:03	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/09/13 09:30	10/10/13 02:03	1
Manganese	0.023	J	0.025	0.010	mg/L		10/09/13 09:30	10/10/13 02:03	1
Nickel	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 02:03	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/10/13 02:03	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 02:03	1
Zinc	0.73		0.10	0.020	mg/L		10/09/13 09:30	10/10/13 02:03	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 16:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 16:38	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 11:16	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.017	0.0078	mg/Kg	✱	10/01/13 15:30	10/02/13 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.23		0.200	0.200	SU			10/10/13 14:52	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B02-2

Lab Sample ID: 500-63578-20

Date Collected: 09/24/13 15:10

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0040		0.0040	0.0017	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Bromoform	<0.0040		0.0040	0.00092	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Chlorobenzene	<0.0040		0.0040	0.00040	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Chloromethane	<0.0040		0.0040	0.00084	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00052	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Dibromochloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
1,1-Dichloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
1,1-Dichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00052	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Ethylbenzene	<0.0040		0.0040	0.00081	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
2-Hexanone	<0.0040		0.0040	0.0011	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0010	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00066	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Styrene	<0.0040		0.0040	0.00052	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Tetrachloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00054	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Vinyl chloride	<0.0040		0.0040	0.00084	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1
Xylenes, Total	<0.0080		0.0080	0.00036	mg/Kg	☼	09/24/13 15:10	10/01/13 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/24/13 15:10	10/01/13 16:06	1
Dibromofluoromethane	101		75 - 120	09/24/13 15:10	10/01/13 16:06	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	09/24/13 15:10	10/01/13 16:06	1
Toluene-d8 (Surr)	95		75 - 122	09/24/13 15:10	10/01/13 16:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B02-2

Lab Sample ID: 500-63578-20

Date Collected: 09/24/13 15:10

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B02-2

Lab Sample ID: 500-63578-20

Date Collected: 09/24/13 15:10

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	10/01/13 07:38	10/08/13 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		25 - 110	10/01/13 07:38	10/08/13 23:13	1
Phenol-d5	65		31 - 110	10/01/13 07:38	10/08/13 23:13	1
Nitrobenzene-d5	57		25 - 115	10/01/13 07:38	10/08/13 23:13	1
2-Fluorobiphenyl	71		25 - 119	10/01/13 07:38	10/08/13 23:13	1
2,4,6-Tribromophenol	73		35 - 137	10/01/13 07:38	10/08/13 23:13	1
Terphenyl-d14	125		36 - 134	10/01/13 07:38	10/08/13 23:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6200	B	11	1.0	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Arsenic	9.3		0.57	0.11	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Barium	28		0.56	0.060	mg/Kg	☼	10/14/13 10:27	10/15/13 11:50	1
Beryllium	0.43		0.23	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Boron	6.2		2.8	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Cadmium	1.2		0.11	0.014	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Calcium	77000	B	110	31	mg/Kg	☼	09/25/13 09:12	10/14/13 16:12	10
Chromium	11		0.57	0.066	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Cobalt	7.2		0.28	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Copper	23	B	0.57	0.050	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Iron	18000		11	4.6	mg/Kg	☼	10/14/13 10:27	10/15/13 11:50	1
Lead	11		0.28	0.085	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Magnesium	33000	B	5.7	1.2	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Manganese	370	B	0.57	0.031	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Nickel	18	B	0.57	0.056	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Potassium	1600		28	1.7	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Sodium	280		57	7.6	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Vanadium	14		0.28	0.042	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1
Zinc	56	B	1.1	0.23	mg/Kg	☼	09/25/13 09:12	10/12/13 03:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.86	B	0.50	0.010	mg/L		10/09/13 09:30	10/10/13 02:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/10/13 02:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B02-2

Lab Sample ID: 500-63578-20

Date Collected: 09/24/13 15:10

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.8		0.10	0.050	mg/L		10/09/13 09:30	10/10/13 02:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/10/13 02:09	1
Chromium	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 02:09	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 02:09	1
Iron	4.8		0.20	0.20	mg/L		10/09/13 09:30	10/10/13 02:09	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/09/13 09:30	10/10/13 02:09	1
Manganese	0.086		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 02:09	1
Nickel	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/10/13 02:09	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/10/13 02:09	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/10/13 02:09	1
Zinc	0.65		0.10	0.020	mg/L		10/09/13 09:30	10/10/13 02:09	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 16:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 16:42	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 11:18	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0087	mg/Kg	☼	10/01/13 15:30	10/02/13 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.57		0.200	0.200	SU			10/10/13 14:56	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B03-1

Lab Sample ID: 500-63578-21

Date Collected: 09/24/13 14:50

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	09/24/13 14:50	10/01/13 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/24/13 14:50	10/01/13 16:29	1
Dibromofluoromethane	100		75 - 120	09/24/13 14:50	10/01/13 16:29	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	09/24/13 14:50	10/01/13 16:29	1
Toluene-d8 (Surr)	97		75 - 122	09/24/13 14:50	10/01/13 16:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B03-1

Lab Sample ID: 500-63578-21

Date Collected: 09/24/13 14:50

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Dibenzofuran	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B03-1

Lab Sample ID: 500-63578-21

Date Collected: 09/24/13 14:50

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Benzo[a]pyrene	<0.038		0.038	0.0071	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	10/02/13 07:29	10/08/13 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		25 - 110	10/02/13 07:29	10/08/13 17:28	1
Phenol-d5	57		31 - 110	10/02/13 07:29	10/08/13 17:28	1
Nitrobenzene-d5	62		25 - 115	10/02/13 07:29	10/08/13 17:28	1
2-Fluorobiphenyl	70		25 - 119	10/02/13 07:29	10/08/13 17:28	1
2,4,6-Tribromophenol	81		35 - 137	10/02/13 07:29	10/08/13 17:28	1
Terphenyl-d14	109		36 - 134	10/02/13 07:29	10/08/13 17:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9400	B	12	1.1	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Arsenic	9.7		0.58	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Barium	54		0.55	0.058	mg/Kg	☼	10/14/13 10:27	10/15/13 11:56	1
Beryllium	0.58		0.23	0.021	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Boron	5.5		2.9	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Cadmium	1.3		0.12	0.015	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Calcium	44000	B	12	3.2	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Chromium	15		0.58	0.067	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Cobalt	12		0.29	0.021	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Copper	31	B	0.58	0.052	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Iron	20000		11	4.5	mg/Kg	☼	10/14/13 10:27	10/15/13 11:56	1
Lead	13		0.29	0.087	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Magnesium	22000	B	5.8	1.2	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Manganese	510	B	0.58	0.032	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Nickel	31	B	0.58	0.057	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Potassium	1500		29	1.8	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Sodium	330		58	7.8	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Thallium	<0.58		0.58	0.25	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Vanadium	19		0.29	0.043	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1
Zinc	47	B	1.2	0.23	mg/Kg	☼	09/25/13 09:12	10/12/13 03:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/15/13 09:00	10/15/13 18:16	1
Boron	0.98		0.10	0.050	mg/L		10/15/13 09:00	10/15/13 18:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B03-1

Lab Sample ID: 500-63578-21

Date Collected: 09/24/13 14:50

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.33		0.20	0.20	mg/L		10/15/13 09:00	10/15/13 18:16	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/15/13 18:16	1
Manganese	0.14		0.025	0.010	mg/L		10/15/13 09:00	10/15/13 18:16	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		10/09/13 09:30	10/09/13 18:13	1
Beryllium	0.0044		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 18:13	1
Boron	2.2		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 18:13	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 18:13	1
Chromium	0.086		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:13	1
Cobalt	0.021	J	0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:13	1
Iron	81		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 18:13	1
Lead	0.034		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 18:13	1
Manganese	0.32		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:13	1
Nickel	0.084		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:13	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 18:13	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:13	1
Zinc	1.0		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 18:13	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/15/13 09:00	10/15/13 16:59	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 17:13	1
Thallium	0.0032		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 17:13	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 11:30	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.018	0.0086	mg/Kg	☼	10/01/13 15:30	10/02/13 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.27		0.200	0.200	SU			10/10/13 14:59	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B03-2

Lab Sample ID: 500-63578-22

Date Collected: 09/24/13 14:55

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 86.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0045		0.0043	0.0019	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	09/24/13 14:55	10/01/13 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/24/13 14:55	10/01/13 16:52	1
Dibromofluoromethane	98		75 - 120	09/24/13 14:55	10/01/13 16:52	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/24/13 14:55	10/01/13 16:52	1
Toluene-d8 (Surr)	94		75 - 122	09/24/13 14:55	10/01/13 16:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B03-2

Lab Sample ID: 500-63578-22

Date Collected: 09/24/13 14:55

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B03-2

Lab Sample ID: 500-63578-22

Date Collected: 09/24/13 14:55

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	10/02/13 07:29	10/08/13 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110	10/02/13 07:29	10/08/13 17:48	1
Phenol-d5	63		31 - 110	10/02/13 07:29	10/08/13 17:48	1
Nitrobenzene-d5	64		25 - 115	10/02/13 07:29	10/08/13 17:48	1
2-Fluorobiphenyl	70		25 - 119	10/02/13 07:29	10/08/13 17:48	1
2,4,6-Tribromophenol	81		35 - 137	10/02/13 07:29	10/08/13 17:48	1
Terphenyl-d14	114		36 - 134	10/02/13 07:29	10/08/13 17:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6300	B	11	1.0	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Arsenic	10		0.55	0.11	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Barium	30		0.54	0.058	mg/Kg	☼	10/14/13 10:27	10/15/13 12:02	1
Beryllium	0.43		0.22	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Boron	6.1		2.8	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Cadmium	1.2		0.11	0.014	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Calcium	78000	B	110	30	mg/Kg	☼	09/25/13 09:12	10/14/13 16:19	10
Chromium	11		0.55	0.064	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Cobalt	8.7		0.28	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Copper	23	B	0.55	0.049	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Iron	19000		11	4.4	mg/Kg	☼	10/14/13 10:27	10/15/13 12:02	1
Lead	11		0.28	0.082	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Magnesium	32000	B	5.5	1.1	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Manganese	480	B	0.55	0.030	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Nickel	22	B	0.55	0.054	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Potassium	1500		28	1.7	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Sodium	350		55	7.4	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Thallium	0.24	J	0.55	0.23	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Vanadium	14		0.28	0.041	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1
Zinc	52	B	1.1	0.22	mg/Kg	☼	09/25/13 09:12	10/12/13 03:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/15/13 09:00	10/16/13 02:07	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/16/13 02:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Client Sample ID: 846D-11-B03-2

Lab Sample ID: 500-63578-22

Date Collected: 09/24/13 14:55

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.92		0.025	0.010	mg/L		10/15/13 09:00	10/16/13 02:07	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.87		0.50	0.010	mg/L		10/09/13 09:30	10/09/13 18:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 18:19	1
Boron	1.6		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 18:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 18:19	1
Chromium	0.052		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:19	1
Cobalt	0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:19	1
Iron	63		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 18:19	1
Lead	0.025		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 18:19	1
Manganese	0.30		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:19	1
Nickel	0.070		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:19	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 18:19	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:19	1
Zinc	0.82		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 18:19	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/15/13 09:00	10/15/13 17:20	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 17:17	1
Thallium	0.0021		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 17:17	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 11:31	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0084	mg/Kg	☼	10/01/13 15:30	10/02/13 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.38		0.200	0.200	SU			10/10/13 15:02	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6 / I7 Willie & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEI</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63578</u> Sample Temp.: <u>34.38 (32) 35</u> Matrix Key: <table style="font-size: small; margin-top: 5px;"> <tr><td>W:</td><td>Water</td></tr> <tr><td>S:</td><td>Soil</td></tr> <tr><td>SL:</td><td>Sludge</td></tr> <tr><td>S:</td><td>Sediment</td></tr> <tr><td>L:</td><td>Leachate</td></tr> <tr><td>DW:</td><td>Drinking Water</td></tr> <tr><td>OL:</td><td>Oil</td></tr> <tr><td>O:</td><td>Other</td></tr> </table>	W:	Water	S:	Soil	SL:	Sludge	S:	Sediment	L:	Leachate	DW:	Drinking Water	OL:	Oil	O:	Other
W:	Water																		
S:	Soil																		
SL:	Sludge																		
S:	Sediment																		
L:	Leachate																		
DW:	Drinking Water																		
OL:	Oil																		
O:	Other																		
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments			
13	846D-10-B06-1 DUP	9/24/13	10:00	S	X	X					X	X	X	X		0-5'			
14	846D-10-B06-2		10:05	S	X	X					X	X	X	X		5'-10'			
15	846D-10-B07-1		9:45	S	X	X					X	X	X	X		0-5'			
16	846D-10-B07-2	↓	9:50	S	X	X					X	X	X	X		5'-10'			
					Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time			
Relinquished by: <u>Kevin A. Wright (AEI)</u>					9/24/13	4:05											9/24/13 11:05		
Relinquished by: <u>[Signature]</u>					9/24/13	10:00												9/25/13 06:30	
Relinquished by: <u>[Signature]</u>																			



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>USO/IL7 Wino Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>A&E</u>	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63578</u> Sample Temp: <u>3, 4, 3, 3, 2, 3, 5</u> Matrix Key: <ul style="list-style-type: none"> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other 															
ANALYSES																		
See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																		
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments		
17	846D-11-B01-1	9/24/13	3:20	S	X	X					X	X	X	X		0-6.5'		
18	846D-11-B01-2		3:25													6.5-13'		
19	846D-11-B02-1		3:05													0-6.5'		
20	846D-11-B02-2		3:10													6.5-13'		
21	846D-11-B03-1		2:50													0-6.5'		
22	846D-11-B03-2		2:55	S	X	X					X	X	X	X		6.5-13'		
					Date/Time	9/24/13	4:05	Received by: <u>[Signature]</u>									Date/Time	9/24/13/1605
					Date/Time	9/25/13	1:00	Received by: <u>[Signature]</u>									Date/Time	9/25/13 0630
					Date/Time			Received by:									Date/Time	



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6 / IL7 Wheel & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEJ</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63578</u> Sample Temp.: <u>34.3/32.3/35</u> Matrix Key: <ul style="list-style-type: none"> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other 								
ANALYSES											
VOCs	SVOCs	BETX & MTBF	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
28	X	X	X	X	X	X	X	X	X	0-6.5'	
29	X	X	X	X	X	X	X	X	X	6.5'-13'	
30	X	X	X	X	X	X	X	X	X	0-6.5'	
31	X	X	X	X	X	X	X	X	X	6.5'-13'	
<p>Special Instructions:</p> <p>See Table 2 for complete parameter lists and minimum reporting limits.</p> <p>* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.</p> <p>** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.</p>											
Lab ID	Sample ID	Sample Date	Sample Time	Matrix							
28	840D-13-B01-1	9/24/13	12:50	S							
29	840D-13-B01-2		12:55	S							
30	840D-13-B02-1		1:20	S							
31	840D-13-B02-2	v	1:25	S							
Relinquished by: <u>Tim A. Wright (AEJ)</u>					Date/Time	9/24/13 4:05					
Relinquished by: <u>[Signature]</u>					Date/Time	9/24/13 1640					
Relinquished by: <u>[Signature]</u>					Date/Time	9/25/13 0630					



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericalinc.com	Project Information Project Name: <u>560/IL7 Wier & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AET</u>	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63578</u> Sample Temp: <u>34.30/32.35</u> Matrix Key: <ul style="list-style-type: none"> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other 										
ANALYSES													
VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments		
17	846D-11-B01-1	9/24/13	3:20	S	X	X	X	X	X		0-6.5'		
18	846D-11-B01-2		3:25								6.5-13'		
19	846D-11-B02-1		3:05								0-6.5'		
20	846D-11-B02-2		3:10								6.5-13'		
21	846D-11-B03-1		2:50								0-6.5'		
22	846D-11-B03-2	v	2:55	S	X	X	X	X	X		6.5-13'		
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.													
Relinquished by:	Date/Time	9/24/13	4:05									Date/Time	9/24/13/1605
Relinquished by:	Date/Time	9/25/13	1:00									Date/Time	9/25/13 0630
Relinquished by:	Date/Time											Date/Time	



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
15609 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59829 Longitude: -87.99828
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59829 Longitude: -87.99828

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 846D-12-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-12. SEE FIGURE 3 AND TABLE 3f OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-63578-3

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

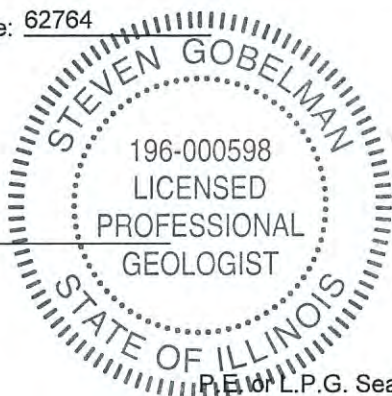
Steven Gobelman

Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14

Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63578-3
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/17/2013 8:47:09 AM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B01-1

Lab Sample ID: 500-63578-23

Date Collected: 09/24/13 14:00

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 83.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00058	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Dibromochloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
1,1-Dichloroethane	<0.0045		0.0045	0.00070	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
1,1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00058	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Styrene	<0.0045		0.0045	0.00058	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Toluene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Trichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	09/24/13 14:00	10/01/13 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	09/24/13 14:00	10/01/13 17:15	1
Dibromofluoromethane	102		75 - 120	09/24/13 14:00	10/01/13 17:15	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/24/13 14:00	10/01/13 17:15	1
Toluene-d8 (Surr)	94		75 - 122	09/24/13 14:00	10/01/13 17:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B01-1

Lab Sample ID: 500-63578-23

Date Collected: 09/24/13 14:00

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B01-1

Lab Sample ID: 500-63578-23

Date Collected: 09/24/13 14:00

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	10/02/13 07:29	10/08/13 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110				10/02/13 07:29	10/08/13 18:09	1
Phenol-d5	64		31 - 110				10/02/13 07:29	10/08/13 18:09	1
Nitrobenzene-d5	59		25 - 115				10/02/13 07:29	10/08/13 18:09	1
2-Fluorobiphenyl	66		25 - 119				10/02/13 07:29	10/08/13 18:09	1
2,4,6-Tribromophenol	64		35 - 137				10/02/13 07:29	10/08/13 18:09	1
Terphenyl-d14	91		36 - 134				10/02/13 07:29	10/08/13 18:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17000	B	12	1.1	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Arsenic	12		0.58	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Barium	68		0.55	0.059	mg/Kg	☼	10/14/13 10:27	10/15/13 12:09	1
Beryllium	0.95		0.23	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Boron	3.2		2.9	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Cadmium	1.2		0.12	0.015	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Calcium	5100	B	12	3.1	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Chromium	24		0.58	0.067	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Cobalt	15		0.29	0.021	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Copper	35	B	0.58	0.051	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Iron	23000		11	4.5	mg/Kg	☼	10/14/13 10:27	10/15/13 12:09	1
Lead	20		0.29	0.086	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Magnesium	6500	B	5.8	1.2	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Manganese	380	B	0.58	0.031	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Nickel	32	B	0.58	0.057	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Potassium	1600		29	1.7	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Selenium	0.82		0.58	0.21	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Sodium	520		58	7.8	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Thallium	<0.58		0.58	0.24	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Vanadium	30		0.29	0.043	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1
Zinc	65	B	1.2	0.23	mg/Kg	☼	09/25/13 09:12	10/12/13 04:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.057	J	0.10	0.050	mg/L		10/15/13 09:00	10/16/13 02:32	1
Iron	1.4		0.20	0.20	mg/L		10/15/13 09:00	10/16/13 02:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B01-1

Lab Sample ID: 500-63578-23

Date Collected: 09/24/13 14:00

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		10/09/13 09:30	10/09/13 18:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 18:26	1
Boron	2.0		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 18:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 18:26	1
Chromium	0.018	J	0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:26	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:26	1
Iron	11		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 18:26	1
Lead	0.0072	J	0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 18:26	1
Manganese	0.056		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:26	1
Nickel	0.012	J	0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:26	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 18:26	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:26	1
Zinc	0.81		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 18:26	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 17:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 17:20	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000029	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 11:33	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.020	0.0093	mg/Kg	✱	10/01/13 15:30	10/02/13 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.40		0.200	0.200	SU			10/10/13 15:06	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B01-1 DUP

Lab Sample ID: 500-63578-24

Date Collected: 09/24/13 14:05

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	09/24/13 14:05	10/01/13 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	09/24/13 14:05	10/01/13 17:37	1
Dibromofluoromethane	104		75 - 120	09/24/13 14:05	10/01/13 17:37	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/24/13 14:05	10/01/13 17:37	1
Toluene-d8 (Surr)	95		75 - 122	09/24/13 14:05	10/01/13 17:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B01-1 DUP

Lab Sample ID: 500-63578-24

Date Collected: 09/24/13 14:05

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Acenaphthylene	<0.037		0.037	0.0087	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Anthracene	<0.037		0.037	0.0089	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B01-1 DUP

Lab Sample ID: 500-63578-24

Date Collected: 09/24/13 14:05

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Benzo[a]pyrene	<0.037		0.037	0.0069	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	10/02/13 07:25	10/08/13 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		25 - 110	10/02/13 07:25	10/08/13 12:00	1
Phenol-d5	66		31 - 110	10/02/13 07:25	10/08/13 12:00	1
Nitrobenzene-d5	75		25 - 115	10/02/13 07:25	10/08/13 12:00	1
2-Fluorobiphenyl	64		25 - 119	10/02/13 07:25	10/08/13 12:00	1
2,4,6-Tribromophenol	66		35 - 137	10/02/13 07:25	10/08/13 12:00	1
Terphenyl-d14	88		36 - 134	10/02/13 07:25	10/08/13 12:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300	B	11	1.0	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Arsenic	7.9		0.57	0.11	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Barium	43		0.58	0.062	mg/Kg	☼	10/14/13 10:27	10/15/13 03:52	1
Beryllium	0.58		0.23	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Boron	6.6		2.9	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Cadmium	1.0		0.11	0.014	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Calcium	53000	B	11	3.1	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Chromium	15		0.57	0.066	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Cobalt	8.6		0.29	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Copper	26	B	0.57	0.051	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Iron	19000		12	4.8	mg/Kg	☼	10/14/13 10:27	10/15/13 03:52	1
Lead	11		0.29	0.085	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Magnesium	24000	B	5.7	1.2	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Manganese	400	B	0.57	0.031	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Nickel	26	B	0.57	0.056	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Potassium	1900		29	1.7	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Sodium	400		57	7.6	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Thallium	0.26	J	0.57	0.24	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Vanadium	19		0.29	0.042	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1
Zinc	51	B	1.1	0.23	mg/Kg	☼	09/25/13 09:12	10/12/13 04:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/15/13 09:00	10/16/13 02:53	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/16/13 02:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B01-1 DUP

Lab Sample ID: 500-63578-24

Date Collected: 09/24/13 14:05

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.39		0.025	0.010	mg/L		10/15/13 09:00	10/16/13 02:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.93		0.50	0.010	mg/L		10/09/13 09:30	10/09/13 18:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 18:32	1
Boron	1.6		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 18:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 18:32	1
Chromium	0.063		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:32	1
Cobalt	0.016	J	0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:32	1
Iron	62		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 18:32	1
Lead	0.027		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 18:32	1
Manganese	0.27		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:32	1
Nickel	0.059		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:32	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 18:32	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:32	1
Zinc	0.75		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 18:32	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 17:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 17:24	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000031	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 11:39	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.017	0.0082	mg/Kg	☼	10/01/13 15:30	10/02/13 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.48		0.200	0.200	SU			10/10/13 15:09	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B01-2

Lab Sample ID: 500-63578-25

Date Collected: 09/24/13 14:10

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0086		0.0041	0.0018	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
1,1,1-Dichloroethane	<0.0041		0.0041	0.00067	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	09/24/13 14:10	10/01/13 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/24/13 14:10	10/01/13 18:00	1
Dibromofluoromethane	100		75 - 120	09/24/13 14:10	10/01/13 18:00	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	09/24/13 14:10	10/01/13 18:00	1
Toluene-d8 (Surr)	96		75 - 122	09/24/13 14:10	10/01/13 18:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B01-2

Lab Sample ID: 500-63578-25

Date Collected: 09/24/13 14:10

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B01-2

Lab Sample ID: 500-63578-25

Date Collected: 09/24/13 14:10

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	10/02/13 07:25	10/08/13 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		25 - 110	10/02/13 07:25	10/08/13 12:24	1
Phenol-d5	62		31 - 110	10/02/13 07:25	10/08/13 12:24	1
Nitrobenzene-d5	58		25 - 115	10/02/13 07:25	10/08/13 12:24	1
2-Fluorobiphenyl	56		25 - 119	10/02/13 07:25	10/08/13 12:24	1
2,4,6-Tribromophenol	60		35 - 137	10/02/13 07:25	10/08/13 12:24	1
Terphenyl-d14	84		36 - 134	10/02/13 07:25	10/08/13 12:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6000	B	12	1.1	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Antimony	<1.2		1.2	0.46	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Arsenic	7.8		0.58	0.11	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Barium	25		0.53	0.057	mg/Kg	☼	10/14/13 10:27	10/15/13 03:59	1
Beryllium	0.43		0.23	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Boron	5.9		2.9	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Cadmium	1.3		0.12	0.015	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Calcium	84000	B	120	31	mg/Kg	☼	09/25/13 09:12	10/14/13 16:25	10
Chromium	11		0.58	0.067	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Cobalt	8.7		0.29	0.021	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Copper	25	B	0.58	0.051	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Iron	17000		11	4.4	mg/Kg	☼	10/14/13 10:27	10/15/13 03:59	1
Lead	12		0.29	0.086	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Magnesium	34000	B	5.8	1.2	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Manganese	460	B	0.58	0.031	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Nickel	20	B	0.58	0.057	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Potassium	1600		29	1.7	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Sodium	280		58	7.7	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Thallium	0.29	J	0.58	0.24	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Vanadium	15		0.29	0.043	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1
Zinc	57	B	1.2	0.23	mg/Kg	☼	09/25/13 09:12	10/12/13 04:30	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.88		0.50	0.010	mg/L		10/09/13 09:30	10/09/13 18:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 18:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B01-2

Lab Sample ID: 500-63578-25

Date Collected: 09/24/13 14:10

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.9		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 18:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 18:39	1
Chromium	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:39	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:39	1
Iron	0.36		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 18:39	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 18:39	1
Manganese	0.011	J	0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:39	1
Nickel	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:39	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 18:39	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:39	1
Zinc	0.76		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 18:39	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 17:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 17:27	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 11:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0087	mg/Kg	☼	10/01/13 15:30	10/02/13 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.00		0.200	0.200	SU			10/10/13 15:13	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B02-1

Lab Sample ID: 500-63578-26

Date Collected: 09/24/13 13:35

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.020		0.0041	0.0018	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Benzene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Bromomethane	<0.0041		0.0041	0.0013	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Chloroform	<0.0041		0.0041	0.00048	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Chloromethane	<0.0041		0.0041	0.00087	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00059	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
1,1-Dichloroethane	<0.0041		0.0041	0.00066	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
1,1-Dichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
1,2-Dichloropropane	<0.0041		0.0041	0.00063	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Ethylbenzene	<0.0041		0.0041	0.00084	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00069	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00057	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Vinyl chloride	<0.0041		0.0041	0.00087	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	09/24/13 13:35	10/01/13 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/24/13 13:35	10/01/13 18:23	1
Dibromofluoromethane	98		75 - 120	09/24/13 13:35	10/01/13 18:23	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/24/13 13:35	10/01/13 18:23	1
Toluene-d8 (Surr)	93		75 - 122	09/24/13 13:35	10/01/13 18:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B02-1

Lab Sample ID: 500-63578-26

Date Collected: 09/24/13 13:35

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Hexachlorobenzene	<0.077		0.077	0.0076	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B02-1

Lab Sample ID: 500-63578-26

Date Collected: 09/24/13 13:35

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	10/02/13 07:25	10/07/13 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		25 - 110	10/02/13 07:25	10/07/13 20:21	1
Phenol-d5	68		31 - 110	10/02/13 07:25	10/07/13 20:21	1
Nitrobenzene-d5	68		25 - 115	10/02/13 07:25	10/07/13 20:21	1
2-Fluorobiphenyl	63		25 - 119	10/02/13 07:25	10/07/13 20:21	1
2,4,6-Tribromophenol	83		35 - 137	10/02/13 07:25	10/07/13 20:21	1
Terphenyl-d14	93		36 - 134	10/02/13 07:25	10/07/13 20:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100	B	11	1.0	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Arsenic	11		0.56	0.11	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Barium	44		0.58	0.062	mg/Kg	☼	10/14/13 10:27	10/15/13 04:05	1
Beryllium	0.59		0.23	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Boron	5.5		2.8	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Cadmium	1.2		0.11	0.014	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Calcium	48000	B	11	3.1	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Chromium	15		0.56	0.065	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Cobalt	11		0.28	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Copper	31	B	0.56	0.050	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Iron	19000		12	4.8	mg/Kg	☼	10/14/13 10:27	10/15/13 04:05	1
Lead	14		0.28	0.084	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Magnesium	22000	B	5.6	1.2	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Manganese	320	B	0.56	0.031	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Nickel	25	B	0.56	0.055	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Potassium	1600		28	1.7	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Sodium	210		56	7.6	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Vanadium	18		0.28	0.042	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1
Zinc	52	B	1.1	0.23	mg/Kg	☼	09/25/13 09:12	10/12/13 04:37	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.73		0.50	0.010	mg/L		10/09/13 09:30	10/09/13 18:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 18:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B02-1

Lab Sample ID: 500-63578-26

Date Collected: 09/24/13 13:35

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.4		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 18:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 18:45	1
Chromium	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:45	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:45	1
Iron	3.5		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 18:45	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 18:45	1
Manganese	0.022 J		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:45	1
Nickel	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:45	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 18:45	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:45	1
Zinc	0.57		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 18:45	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 17:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 17:31	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 11:43	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0082	mg/Kg	☼	10/01/13 15:30	10/02/13 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.08		0.200	0.200	SU			10/10/13 15:16	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B02-2

Lab Sample ID: 500-63578-27

Date Collected: 09/24/13 13:40

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Chloromethane	<0.0041		0.0041	0.00085	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00053	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
1,1-Dichloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00053	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Ethylbenzene	<0.0041		0.0041	0.00082	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00067	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Styrene	<0.0041		0.0041	0.00053	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00082	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Vinyl chloride	<0.0041		0.0041	0.00085	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	09/24/13 13:40	10/01/13 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	09/24/13 13:40	10/01/13 18:45	1
Dibromofluoromethane	101		75 - 120	09/24/13 13:40	10/01/13 18:45	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	09/24/13 13:40	10/01/13 18:45	1
Toluene-d8 (Surr)	94		75 - 122	09/24/13 13:40	10/01/13 18:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B02-2

Lab Sample ID: 500-63578-27

Date Collected: 09/24/13 13:40

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
2-Nitrophenol	<0.36		0.36	0.058	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B02-2

Lab Sample ID: 500-63578-27

Date Collected: 09/24/13 13:40

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	10/02/13 07:25	10/07/13 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		25 - 110	10/02/13 07:25	10/07/13 20:45	1
Phenol-d5	76		31 - 110	10/02/13 07:25	10/07/13 20:45	1
Nitrobenzene-d5	74		25 - 115	10/02/13 07:25	10/07/13 20:45	1
2-Fluorobiphenyl	64		25 - 119	10/02/13 07:25	10/07/13 20:45	1
2,4,6-Tribromophenol	77		35 - 137	10/02/13 07:25	10/07/13 20:45	1
Terphenyl-d14	91		36 - 134	10/02/13 07:25	10/07/13 20:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6200	B	11	1.0	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Arsenic	10		0.54	0.11	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Barium	29		0.56	0.060	mg/Kg	☼	10/14/13 10:27	10/15/13 04:11	1
Beryllium	0.41		0.22	0.019	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Boron	5.3		2.7	0.11	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Cadmium	1.2		0.11	0.014	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Calcium	72000	B	110	29	mg/Kg	☼	09/25/13 09:12	10/14/13 16:46	10
Chromium	11		0.54	0.063	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Cobalt	7.7		0.27	0.019	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Copper	22	B	0.54	0.048	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Iron	19000		11	4.6	mg/Kg	☼	10/14/13 10:27	10/15/13 04:11	1
Lead	11		0.27	0.081	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Magnesium	31000	B	5.4	1.1	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Manganese	420	B	0.54	0.029	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Nickel	19	B	0.54	0.053	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Potassium	1400		27	1.6	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Sodium	370		54	7.3	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Thallium	0.25	J	0.54	0.23	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Vanadium	14		0.27	0.040	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1
Zinc	52	B	1.1	0.22	mg/Kg	☼	09/25/13 09:12	10/12/13 04:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/15/13 09:00	10/16/13 02:59	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/16/13 02:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Client Sample ID: 846D-12-B02-2

Lab Sample ID: 500-63578-27

Date Collected: 09/24/13 13:40

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.95		0.50	0.010	mg/L		10/09/13 09:30	10/09/13 18:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 18:51	1
Boron	1.8		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 18:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 18:51	1
Chromium	0.020	J	0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:51	1
Cobalt	0.0056	J	0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:51	1
Iron	18		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 18:51	1
Lead	0.0086		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 18:51	1
Manganese	0.10		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:51	1
Nickel	0.017	J	0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:51	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 18:51	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:51	1
Zinc	0.78		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 18:51	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 17:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 17:34	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000048	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 11:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0086	mg/Kg	☼	10/01/13 15:30	10/02/13 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.09		0.200	0.200	SU			10/10/13 15:20	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact
 Andrews Engineering, Inc
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 Lab: Test America - Chicago
 Address: 2417 Bond Street
 University Park, IL 60484
 Phone: 708-534-5200
 Contact: Dick Wright
 email: richard.wright@testamericainc.com

Project Name: US6/IL7 Wilson Cook Co
 Project No.: IDOT 2013-023
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Sampler: AEI

COC No.: 1 of 1
 Lab Job No.: 500-63578
 Sample Temp: 34.38/3.23/5
 Matrix Key:

W: Water
 S: Soil
 SL: Sludge
 S: Sediment
 L: Leachate
 DW: Drinking Water
 OL: Oil
 O: Other

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix
1	846D-10-B01-1	9/24/13	11:00	S
2	846D-10-B01-1 DUP		11:05	
3	846D-10-B01-2		11:10	
4	846D-10-B02-1		10:45	
5	846D-10-B02-2		10:50	
6	846D-10-B03-1		10:35	
7	846D-10-B03-2		10:40	
8	846D-10-B04-1		10:20	
9	846D-10-B04-2		10:25	
10	846D-10-B05-1		10:10	
11	846D-10-B05-2		10:15	
12	846D-10-B06-1		9:55	S

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBS	* Total Metals	SPLP** TCLP Metals	pH	% Solids	Waste Characterization	Comments
1	846D-10-B01-1	9/24/13	11:00	S	X	X					X	X	X	X		0-5'
2	846D-10-B01-1 DUP		11:05													0-5'
3	846D-10-B01-2		11:10													5-10'
4	846D-10-B02-1		10:45													0-5'
5	846D-10-B02-2		10:50													5-10'
6	846D-10-B03-1		10:35													0-5'
7	846D-10-B03-2		10:40													5-10'
8	846D-10-B04-1		10:20													0-5'
9	846D-10-B04-2		10:25													5-10'
10	846D-10-B05-1		10:10													0-5'
11	846D-10-B05-2		10:15													5-10'
12	846D-10-B06-1		9:55	S	X	X					X	X	X	X		0-5'

Relinquished by: John A. Wright (AEI) Date/Time: 9/24/13 4:05 Received by: [Signature] Date/Time: 9/24/13/1605
 Relinquished by: [Signature] Date/Time: 9/24/13/1600 Received by: [Signature] Date/Time: 9/25/13 0630
 Relinquished by: [Signature] Date/Time: [Blank] Received by: [Blank] Date/Time: [Blank]



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6 / I7 Willie & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEI</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63578</u> Sample Temp.: <u>34.38 (32) 35</u> Matrix Key: <table style="font-size: small; margin-top: 5px;"> <tr><td>W:</td><td>Water</td></tr> <tr><td>S:</td><td>Soil</td></tr> <tr><td>SL:</td><td>Sludge</td></tr> <tr><td>S:</td><td>Sediment</td></tr> <tr><td>L:</td><td>Leachate</td></tr> <tr><td>DW:</td><td>Drinking Water</td></tr> <tr><td>OL:</td><td>Oil</td></tr> <tr><td>O:</td><td>Other</td></tr> </table>	W:	Water	S:	Soil	SL:	Sludge	S:	Sediment	L:	Leachate	DW:	Drinking Water	OL:	Oil	O:	Other
W:	Water																		
S:	Soil																		
SL:	Sludge																		
S:	Sediment																		
L:	Leachate																		
DW:	Drinking Water																		
OL:	Oil																		
O:	Other																		
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments			
13	846D-10-B06-1 DUP	9/24/13	10:00	S	X	X					X	X	X	X		0-5'			
14	846D-10-B06-2		10:05	S	X	X					X	X	X	X		5'-10'			
15	846D-10-B07-1		9:45	S	X	X					X	X	X	X		0-5'			
16	846D-10-B07-2	↓	9:50	S	X	X					X	X	X	X		5'-10'			
					Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time			
Relinquished by: <u>Kevin A. Wright (AEI)</u>					9/24/13	4:05											9/24/13 11:05		
Relinquished by: <u>[Signature]</u>					9/24/13	10:00												9/25/13 06:30	
Relinquished by: <u>[Signature]</u>																			



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>USE/IL7 Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEI</u>	Administrative COC No.: <u>1 of 1</u> Lab Job No.: <u>500-63578</u> Sample Temp: <u>342.8, 32.35</u> Matrix Key: <ul style="list-style-type: none"> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other 													
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
23	846D-12-B01-1	9/24/13	2:00	S	X	X					X	X	X	X		0-6.5'
24	846D-12-B01-DUP		2:05	S	X	X					X	X	X	X		0-6.5'
25	846D-12-B01-2		2:10	S	X	X					X	X	X	X		6.5'-13'
26	846D-12-B02-1		1:35	S	X	X					X	X	X	X		0-6.5'
27	846D-12-B02-2	↓	1:40	S	X	X					X	X	X	X		6.5'-13'
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
Relinquished by:	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
Relinquished by:	9/24/13	4:05	10:40	10:40	10:40	10:40	10:40	10:40	10:40	10:40	10:40	10:40	10:40	10:40	10:40	10:40
Relinquished by:	9/25/13	10:40	10:40	10:40	10:40	10:40	10:40	10:40	10:40	10:40	10:40	10:40	10:40	10:40	10:40	10:40



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Approximately 15608 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59854 Longitude: -87.99785
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59854 Longitude: -87.99785

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATION 846D-13-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-13. SEE FIGURE 3 AND TABLE 3g OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-63578-4

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

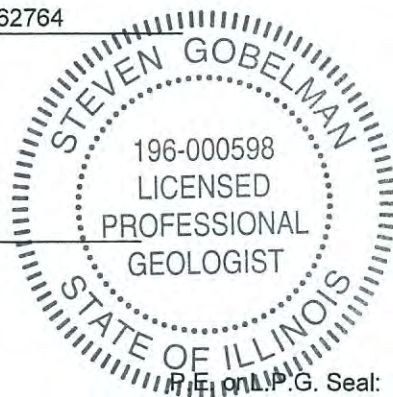
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-13

Petroleum Pipelines

Sample ID	846D-13-B01-1	846D-13-B01-2						
Sample Depth (ft)	0-6.5	6.5-13						
Sample Date	9/24/2013	9/24/2013						
PID	0	0						
Sample pH	8.29	8.25						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								
			¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non- Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63578-4
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/17/2013 8:47:39 AM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-4

Client Sample ID: 846D-13-B01-1

Lab Sample ID: 500-63578-28

Date Collected: 09/24/13 12:50

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Chloromethane	<0.0042		0.0042	0.00087	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Dibromochloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Tetrachloroethene	<0.0042		0.0042	0.00063	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00074	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Vinyl acetate	<0.0042		0.0042	0.00065	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Vinyl chloride	<0.0042		0.0042	0.00087	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	09/24/13 12:50	10/01/13 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/24/13 12:50	10/01/13 19:09	1
Dibromofluoromethane	100		75 - 120	09/24/13 12:50	10/01/13 19:09	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	09/24/13 12:50	10/01/13 19:09	1
Toluene-d8 (Surr)	95		75 - 122	09/24/13 12:50	10/01/13 19:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	10/02/13 07:25	10/07/13 21:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	10/02/13 07:25	10/07/13 21:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/07/13 21:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/07/13 21:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-4

Client Sample ID: 846D-13-B01-1

Lab Sample ID: 500-63578-28

Date Collected: 09/24/13 12:50

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Isophorone	<0.19		0.19	0.043	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Hexachlorobenzene	<0.077		0.077	0.0076	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Carbazole	<0.19		0.19	0.054	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Pyrene	<0.038		0.038	0.014	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	*	10/02/13 07:25	10/07/13 21:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-4

Client Sample ID: 846D-13-B01-1

Lab Sample ID: 500-63578-28

Date Collected: 09/24/13 12:50

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	10/02/13 07:25	10/07/13 21:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/02/13 07:25	10/07/13 21:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:25	10/07/13 21:08	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	10/02/13 07:25	10/07/13 21:08	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	10/02/13 07:25	10/07/13 21:08	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	10/02/13 07:25	10/07/13 21:08	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	10/02/13 07:25	10/07/13 21:08	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 21:08	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 07:25	10/07/13 21:08	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 21:08	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	10/02/13 07:25	10/07/13 21:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		25 - 110				10/02/13 07:25	10/07/13 21:08	1
Phenol-d5	70		31 - 110				10/02/13 07:25	10/07/13 21:08	1
Nitrobenzene-d5	67		25 - 115				10/02/13 07:25	10/07/13 21:08	1
2-Fluorobiphenyl	61		25 - 119				10/02/13 07:25	10/07/13 21:08	1
2,4,6-Tribromophenol	89		35 - 137				10/02/13 07:25	10/07/13 21:08	1
Terphenyl-d14	96		36 - 134				10/02/13 07:25	10/07/13 21:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6500	B	12	1.1	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Arsenic	10		0.58	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Barium	31		0.58	0.062	mg/Kg	☼	10/14/13 10:27	10/15/13 04:17	1
Beryllium	0.44		0.23	0.021	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Boron	5.6		2.9	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Cadmium	1.4		0.12	0.015	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Calcium	74000	B	120	31	mg/Kg	☼	09/25/13 09:12	10/14/13 16:52	10
Chromium	11		0.58	0.067	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Cobalt	9.7		0.29	0.021	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Copper	24	B	0.58	0.052	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Iron	18000		12	4.8	mg/Kg	☼	10/14/13 10:27	10/15/13 04:17	1
Lead	13		0.29	0.087	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Magnesium	32000	B	5.8	1.2	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Manganese	530	B	0.58	0.032	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Nickel	24	B	0.58	0.057	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Potassium	1400		29	1.7	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Sodium	970		58	7.8	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Thallium	0.41	J	0.58	0.25	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Vanadium	15		0.29	0.043	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1
Zinc	53	B	1.2	0.23	mg/Kg	☼	09/25/13 09:12	10/12/13 04:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/15/13 09:00	10/16/13 03:06	1
Iron	<0.20		0.20	0.20	mg/L		10/15/13 09:00	10/16/13 03:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-4

Client Sample ID: 846D-13-B01-1

Lab Sample ID: 500-63578-28

Date Collected: 09/24/13 12:50

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/16/13 03:06	1
Manganese	0.55		0.025	0.010	mg/L		10/15/13 09:00	10/16/13 03:06	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.010	mg/L		10/09/13 09:30	10/09/13 18:58	1
Beryllium	0.0041		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 18:58	1
Boron	1.6		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 18:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 18:58	1
Chromium	0.074		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:58	1
Cobalt	0.029		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:58	1
Iron	89		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 18:58	1
Lead	0.047		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 18:58	1
Manganese	0.42		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:58	1
Nickel	0.089		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 18:58	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 18:58	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 18:58	1
Zinc	0.89		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 18:58	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/15/13 09:00	10/15/13 17:34	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 17:38	1
Thallium	0.0026		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 17:38	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J	0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 11:51	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0086	mg/Kg	☼	10/01/13 15:30	10/02/13 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.29		0.200	0.200	SU			10/10/13 15:23	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-4

Client Sample ID: 846D-13-B01-2

Lab Sample ID: 500-63578-29

Date Collected: 09/24/13 12:55

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Bromoform	<0.0041		0.0041	0.00093	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Chloromethane	<0.0041		0.0041	0.00085	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00053	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
1,1-Dichloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
1,1,1-Dichloroethane	<0.0041		0.0041	0.00066	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00053	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Ethylbenzene	<0.0041		0.0041	0.00082	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00067	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Styrene	<0.0041		0.0041	0.00053	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00082	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00055	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Vinyl chloride	<0.0041		0.0041	0.00085	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	09/24/13 12:55	10/01/13 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/24/13 12:55	10/01/13 19:32	1
Dibromofluoromethane	100		75 - 120	09/24/13 12:55	10/01/13 19:32	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	09/24/13 12:55	10/01/13 19:32	1
Toluene-d8 (Surr)	94		75 - 122	09/24/13 12:55	10/01/13 19:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-4

Client Sample ID: 846D-13-B01-2

Lab Sample ID: 500-63578-29

Date Collected: 09/24/13 12:55

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-4

Client Sample ID: 846D-13-B01-2

Lab Sample ID: 500-63578-29

Date Collected: 09/24/13 12:55

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	10/02/13 07:25	10/08/13 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110	10/02/13 07:25	10/08/13 12:47	1
Phenol-d5	59		31 - 110	10/02/13 07:25	10/08/13 12:47	1
Nitrobenzene-d5	58		25 - 115	10/02/13 07:25	10/08/13 12:47	1
2-Fluorobiphenyl	52		25 - 119	10/02/13 07:25	10/08/13 12:47	1
2,4,6-Tribromophenol	56		35 - 137	10/02/13 07:25	10/08/13 12:47	1
Terphenyl-d14	72		36 - 134	10/02/13 07:25	10/08/13 12:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3900	B	11	1.0	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Arsenic	9.5		0.56	0.11	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Barium	17		0.54	0.057	mg/Kg	☼	10/14/13 10:27	10/15/13 04:24	1
Beryllium	0.30		0.23	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Boron	5.4		2.8	0.12	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Cadmium	1.3		0.11	0.014	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Calcium	93000	B	110	31	mg/Kg	☼	09/25/13 09:12	10/14/13 16:58	10
Chromium	7.3		0.56	0.065	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Cobalt	6.9		0.28	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Copper	26	B	0.56	0.050	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Iron	13000		11	4.4	mg/Kg	☼	10/14/13 10:27	10/15/13 04:24	1
Lead	11		0.28	0.084	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Magnesium	42000	B	5.6	1.2	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Manganese	440	B	0.56	0.031	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Nickel	15	B	0.56	0.055	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Potassium	1100		28	1.7	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Selenium	0.23	J	0.56	0.20	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Silver	0.051	J B	0.28	0.020	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Sodium	500		56	7.6	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Thallium	0.37	J	0.56	0.24	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Vanadium	9.9		0.28	0.042	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1
Zinc	59	B	1.1	0.23	mg/Kg	☼	09/25/13 09:12	10/12/13 04:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/15/13 09:00	10/16/13 03:12	1
Iron	<0.20		0.20	0.20	mg/L		10/15/13 09:00	10/16/13 03:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-4

Client Sample ID: 846D-13-B01-2

Lab Sample ID: 500-63578-29

Date Collected: 09/24/13 12:55

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/16/13 03:12	1
Manganese	1.5		0.025	0.010	mg/L		10/15/13 09:00	10/16/13 03:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.010	mg/L		10/09/13 09:30	10/09/13 19:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 19:04	1
Boron	2.0		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 19:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 19:04	1
Chromium	0.028		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 19:04	1
Cobalt	0.014	J	0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 19:04	1
Iron	23		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 19:04	1
Lead	0.012		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 19:04	1
Manganese	0.23		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 19:04	1
Nickel	0.032		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 19:04	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 19:04	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 19:04	1
Zinc	0.88		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 19:04	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 17:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 17:48	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 11:53	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0083	mg/Kg	☼	10/01/13 15:30	10/02/13 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.25		0.200	0.200	SU			10/10/13 15:30	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-4

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact
 Andrews Engineering, Inc
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 Lab: Test America - Chicago
 Address: 2417 Bond Street
 University Park, IL 60484
 Phone: 708-534-5200
 Contact: Dick Wright
 email: richard.wright@testamericainc.com

Project Name: US6/IL7 Wilson Cook Co
 Project No.: IDOT 2013-023
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Sampler: AEI

COC No.: 1 of 1
 Lab Job No.: 500-63578
 Sample Temp: 34.38/3.23/5
 Matrix Key:

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

ANALYSES		VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBS	* Total Metals	SPLP** TCLP Metals	pH	% Solids	Waste Characterization	Comments
1	846D-10-B01-1	X	X					X	X	X	X		0-5'
2	846D-10-B01-1 DUP												0-5'
3	846D-10-B01-2												5-10'
4	846D-10-B02-1												0-5'
5	846D-10-B02-2												5-10'
6	846D-10-B03-1												0-5'
7	846D-10-B03-2												5-10'
8	846D-10-B04-1												0-5'
9	846D-10-B04-2												5-10'
10	846D-10-B05-1												0-5'
11	846D-10-B05-2												5-10'
12	846D-10-B06-1	X	X					X	X	X	X		0-5'

Relinquished by: John A. Wright (AEI) Date/Time: 9/24/13 4:05 Received by: [Signature] Date/Time: 9/24/13/1605
 Relinquished by: [Signature] Date/Time: 9/24/13/1600 Received by: [Signature] Date/Time: 9/25/13 0630
 Relinquished by: [Signature] Date/Time: [Blank] Received by: [Blank] Date/Time: [Blank]



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>USO/IL7 Wino Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEZ</u>	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63578</u> Sample Temp: <u>3, 4, 3, 3, 2, 3, 5</u> Matrix Key: <ul style="list-style-type: none"> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other 													
ANALYSES																
See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
17	846D-11-B01-1	9/24/13	3:20	S	X	X					X	X	X	X		0-6.5'
18	846D-11-B01-2		3:25													6.5-13'
19	846D-11-B02-1		3:05													0-6.5'
20	846D-11-B02-2		3:10													6.5-13'
21	846D-11-B03-1		2:50													0-6.5'
22	846D-11-B03-2		2:55	S	X	X					X	X	X	X		6.5-13'
					Date/Time	9/24/13	4:05	Received by: <u>[Signature]</u>								
					Date/Time	9/25/13	1:00	Received by: <u>[Signature]</u>								
					Date/Time			Received by:								



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6 / IL7 Hill + Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63578</u> Sample Temp: <u>34.3°C</u> Matrix Key: <u>2.35</u>																																																																																																						
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> <th>VOCs</th> <th>SVOCs</th> <th>BETX & MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>32</td> <td>8460-19-801</td> <td>9/24/13</td> <td>8:20</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-3'</td> </tr> <tr> <td>33</td> <td>8460-19-801-DUP</td> <td></td> <td>8:25</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-3'</td> </tr> <tr> <td>34</td> <td>8460-19-802</td> <td></td> <td>8:35</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-3'</td> </tr> <tr> <td>35</td> <td>8460-19-803</td> <td></td> <td>8:45</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-3'</td> </tr> <tr> <td>36</td> <td>8460-19-804</td> <td></td> <td>8:50</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-3'</td> </tr> </tbody> </table>		Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	32	8460-19-801	9/24/13	8:20	S	X	X			X		X	X	X	X		0-3'	33	8460-19-801-DUP		8:25	S	X	X			X		X	X	X	X		0-3'	34	8460-19-802		8:35	S	X	X			X		X	X	X	X		0-3'	35	8460-19-803		8:45	S	X	X			X		X	X	X	X		0-3'	36	8460-19-804		8:50	S	X	X			X		X	X	X	X		0-3'
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments																																																																																									
32	8460-19-801	9/24/13	8:20	S	X	X			X		X	X	X	X		0-3'																																																																																									
33	8460-19-801-DUP		8:25	S	X	X			X		X	X	X	X		0-3'																																																																																									
34	8460-19-802		8:35	S	X	X			X		X	X	X	X		0-3'																																																																																									
35	8460-19-803		8:45	S	X	X			X		X	X	X	X		0-3'																																																																																									
36	8460-19-804		8:50	S	X	X			X		X	X	X	X		0-3'																																																																																									
Relinquished by: <u>Kevin A. Myers (AEI)</u>		Received by: <u>[Signature]</u>																																																																																																							
Relinquished by: <u>[Signature]</u>		Received by: <u>David Booth</u>																																																																																																							
Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u>																																																																																																							



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US6 / IL 7 Wine & Cook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: 1 of 1 Lab Job No.: 500-63578 Sample Temp.: 3438.3235 Matrix Key:													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class 1 Standard, run TCLP for that specific parameter.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other														
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP** TCLP Metals	pH	% Solids	Waste Characterization	Comments
28	846D-13-B01-1	9/24/13	12:50	S	X						X	X	X	X		0-6.5'
29	846D-13-B01-2		12:55	S	X						X	X	X	X		6.5'-13'
30	846D-13-B02-1		1:20	S	X						X	X	X	X		0-6.5'
31	846D-13-B02-2	v	1:25	S	X						X	X	X	X		6.5'-13'
Relinquished by: <i>Fleming (see)</i> Date/Time: 9/24/13 4:05 Received by: <i>[Signature]</i> Date/Time: 9/24/13/1605																
Relinquished by: <i>[Signature]</i> Date/Time: 9/24/13 11:40 Received by: <i>[Signature]</i> Date/Time: 9/25/13 0630																
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____																



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
15558 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59855 Longitude: -87.99696
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59855 Longitude: -87.99696

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-14-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-14. SEE FIGURES 3 & 4, AND TABLE 3h OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-63499-1

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63499-1
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/15/2013 3:46:40 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B01-1

Lab Sample ID: 500-63499-1

Date Collected: 09/23/13 13:15

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 81.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Carbon tetrachloride	<0.0048	*	0.0048	0.00087	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
1,1,1-Dichloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Trichloroethene	<0.0048	*	0.0048	0.00079	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	09/23/13 13:15	09/27/13 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	09/23/13 13:15	09/27/13 19:52	1
Dibromofluoromethane	108		75 - 120	09/23/13 13:15	09/27/13 19:52	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	09/23/13 13:15	09/27/13 19:52	1
Toluene-d8 (Surr)	102		75 - 122	09/23/13 13:15	09/27/13 19:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B01-1

Lab Sample ID: 500-63499-1

Date Collected: 09/23/13 13:15

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Nitrobenzene	<0.040	*	0.040	0.012	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Fluoranthene	0.054		0.040	0.016	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Pyrene	0.046		0.040	0.015	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Benzo[a]anthracene	0.034	J	0.040	0.0084	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B01-1

Lab Sample ID: 500-63499-1

Date Collected: 09/23/13 13:15

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.045		0.040	0.0091	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Benzo[b]fluoranthene	0.066		0.040	0.0078	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Benzo[k]fluoranthene	0.020 J		0.040	0.0096	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Benzo[a]pyrene	0.038 J		0.040	0.0073	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Indeno[1,2,3-cd]pyrene	0.020 J		0.040	0.014	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Benzo[g,h,i]perylene	0.027 J		0.040	0.014	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	09/25/13 07:37	10/07/13 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		25 - 110				09/25/13 07:37	10/07/13 13:39	1
Phenol-d5	58		31 - 110				09/25/13 07:37	10/07/13 13:39	1
Nitrobenzene-d5	57		25 - 115				09/25/13 07:37	10/07/13 13:39	1
2-Fluorobiphenyl	63		25 - 119				09/25/13 07:37	10/07/13 13:39	1
2,4,6-Tribromophenol	61		35 - 137				09/25/13 07:37	10/07/13 13:39	1
Terphenyl-d14	81		36 - 134				09/25/13 07:37	10/07/13 13:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000 B		12	1.1	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Antimony	<1.2		1.2	0.49	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Arsenic	13		0.61	0.12	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Barium	65		0.61	0.065	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Beryllium	0.70		0.24	0.021	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Boron	4.7		3.0	0.13	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Cadmium	1.4		0.12	0.015	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Calcium	34000 B		12	3.3	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Chromium	16		0.61	0.070	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Cobalt	8.7		0.30	0.022	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Copper	32		0.61	0.054	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Iron	28000		12	5.0	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Lead	29 B		0.30	0.090	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Magnesium	21000 B		6.1	1.2	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Manganese	570		6.1	0.33	mg/Kg	☼	09/24/13 08:16	10/10/13 10:59	10
Nickel	22		0.61	0.059	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Potassium	1200		30	1.8	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Selenium	<0.61		0.61	0.21	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Sodium	830		61	8.1	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Thallium	0.33 J		0.61	0.26	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Vanadium	23		0.30	0.045	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1
Zinc	110 B		1.2	0.24	mg/Kg	☼	09/24/13 08:16	10/10/13 05:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/13 09:35	10/14/13 18:43	1
Boron	<0.50		0.50	0.050	mg/L		10/14/13 09:35	10/14/13 18:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B01-1

Lab Sample ID: 500-63499-1

Date Collected: 09/23/13 13:15

Matrix: Solid

Date Received: 09/24/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		10/14/13 09:35	10/14/13 18:43	1
Iron	<0.20		0.20	0.20	mg/L		10/14/13 09:35	10/14/13 18:43	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/14/13 09:35	10/14/13 18:43	1
Manganese	0.026		0.025	0.010	mg/L		10/14/13 09:35	10/14/13 18:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.5		0.50	0.010	mg/L		10/07/13 09:00	10/09/13 14:46	1
Beryllium	0.0052		0.0040	0.0040	mg/L		10/07/13 09:00	10/09/13 14:46	1
Boron	2.1		0.10	0.050	mg/L		10/07/13 09:00	10/09/13 14:46	1
Cadmium	0.0036	J	0.0050	0.0020	mg/L		10/07/13 09:00	10/09/13 14:46	1
Chromium	0.12		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 14:46	1
Cobalt	0.026		0.025	0.0050	mg/L		10/07/13 09:00	10/09/13 14:46	1
Iron	130		0.20	0.20	mg/L		10/07/13 09:00	10/09/13 14:46	1
Lead	0.075		0.0075	0.0050	mg/L		10/07/13 09:00	10/09/13 14:46	1
Manganese	0.39		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 14:46	1
Nickel	0.092		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 14:46	1
Selenium	<0.050		0.050	0.010	mg/L		10/07/13 09:00	10/09/13 14:46	1
Silver	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/09/13 14:46	1
Zinc	1.3		0.10	0.020	mg/L		10/07/13 09:00	10/09/13 14:46	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/14/13 09:35	10/14/13 16:07	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/07/13 09:00	10/08/13 09:26	1
Thallium	0.0032		0.0020	0.0020	mg/L		10/07/13 09:00	10/08/13 09:26	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00029		0.00020	0.000020	mg/L		10/08/13 17:30	10/09/13 10:07	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.018	0.0083	mg/Kg	☼	09/25/13 15:45	09/26/13 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.33		0.200	0.200	SU			10/07/13 15:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B01-2

Lab Sample ID: 500-63499-2

Date Collected: 09/23/13 13:20

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 84.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Carbon tetrachloride	<0.0042	*	0.0042	0.00076	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
1,1,1-Dichloroethane	<0.0042		0.0042	0.00068	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Trichloroethene	<0.0042	*	0.0042	0.00069	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	09/23/13 13:20	09/27/13 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/23/13 13:20	09/27/13 20:16	1
Dibromofluoromethane	102		75 - 120	09/23/13 13:20	09/27/13 20:16	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	09/23/13 13:20	09/27/13 20:16	1
Toluene-d8 (Surr)	100		75 - 122	09/23/13 13:20	09/27/13 20:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B01-2

Lab Sample ID: 500-63499-2

Date Collected: 09/23/13 13:20

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Nitrobenzene	<0.038	*	0.038	0.012	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Hexachlorobenzene	<0.077		0.077	0.0076	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B01-2

Lab Sample ID: 500-63499-2

Date Collected: 09/23/13 13:20

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	09/25/13 07:37	10/07/13 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110				09/25/13 07:37	10/07/13 14:00	1
Phenol-d5	67		31 - 110				09/25/13 07:37	10/07/13 14:00	1
Nitrobenzene-d5	65		25 - 115				09/25/13 07:37	10/07/13 14:00	1
2-Fluorobiphenyl	74		25 - 119				09/25/13 07:37	10/07/13 14:00	1
2,4,6-Tribromophenol	78		35 - 137				09/25/13 07:37	10/07/13 14:00	1
Terphenyl-d14	88		36 - 134				09/25/13 07:37	10/07/13 14:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6500	B	12	1.1	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Arsenic	7.4		0.58	0.12	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Barium	29		0.58	0.062	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Beryllium	0.48		0.23	0.021	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Boron	7.4		2.9	0.12	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Cadmium	0.79		0.12	0.015	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Calcium	72000	B	120	32	mg/Kg	☼	09/24/13 08:16	10/10/13 11:26	10
Chromium	11		0.58	0.068	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Cobalt	6.3		0.29	0.021	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Copper	19		0.58	0.052	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Iron	16000		12	4.8	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Lead	9.5	B	0.29	0.087	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Magnesium	28000	B	5.8	1.2	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Manganese	320		0.58	0.032	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Nickel	16		0.58	0.057	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Potassium	1500		29	1.8	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Sodium	430		58	7.8	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Thallium	<0.58		0.58	0.25	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Vanadium	15		0.29	0.043	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1
Zinc	44	B	1.2	0.24	mg/Kg	☼	09/24/13 08:16	10/10/13 06:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.063	J B	0.10	0.050	mg/L		10/14/13 09:35	10/14/13 18:49	1
Iron	<0.20		0.20	0.20	mg/L		10/14/13 09:35	10/14/13 18:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B01-2

Lab Sample ID: 500-63499-2

Date Collected: 09/23/13 13:20

Matrix: Solid

Date Received: 09/24/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		10/07/13 09:00	10/09/13 15:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/07/13 09:00	10/09/13 15:11	1
Boron	2.3		0.10	0.050	mg/L		10/07/13 09:00	10/09/13 15:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/07/13 09:00	10/09/13 15:11	1
Chromium	0.014	J	0.025	0.010	mg/L		10/07/13 09:00	10/09/13 15:11	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/09/13 15:11	1
Iron	9.4		0.20	0.20	mg/L		10/07/13 09:00	10/09/13 15:11	1
Lead	0.0074	J	0.0075	0.0050	mg/L		10/07/13 09:00	10/09/13 15:11	1
Manganese	0.095		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 15:11	1
Nickel	0.010	J	0.025	0.010	mg/L		10/07/13 09:00	10/09/13 15:11	1
Selenium	<0.050		0.050	0.010	mg/L		10/07/13 09:00	10/09/13 15:11	1
Silver	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/09/13 15:11	1
Zinc	1.0		0.10	0.020	mg/L		10/07/13 09:00	10/09/13 15:11	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/07/13 09:00	10/08/13 09:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/07/13 09:00	10/08/13 09:39	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/08/13 17:30	10/09/13 10:09	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0084	mg/Kg	✱	09/25/13 15:45	09/26/13 11:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.07		0.200	0.200	SU			10/07/13 15:06	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B02-1

Lab Sample ID: 500-63499-3

Date Collected: 09/23/13 12:55

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 89.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0046		0.0044	0.0019	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Carbon tetrachloride	<0.0044 *		0.0044	0.00080	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
1,1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Trichloroethene	<0.0044 *		0.0044	0.00072	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	09/23/13 12:55	09/27/13 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/23/13 12:55	09/27/13 20:39	1
Dibromofluoromethane	108		75 - 120	09/23/13 12:55	09/27/13 20:39	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	09/23/13 12:55	09/27/13 20:39	1
Toluene-d8 (Surr)	103		75 - 122	09/23/13 12:55	09/27/13 20:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B02-1

Lab Sample ID: 500-63499-3

Date Collected: 09/23/13 12:55

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 89.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Nitrobenzene	<0.036	*	0.036	0.011	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Phenanthrene	0.023	J	0.036	0.015	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Fluoranthene	0.047		0.036	0.015	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Pyrene	0.049		0.036	0.013	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Benzo[a]anthracene	0.039		0.036	0.0077	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B02-1

Lab Sample ID: 500-63499-3

Date Collected: 09/23/13 12:55

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 89.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.052		0.036	0.0083	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Di-n-octyl phthalate	0.085	J	0.18	0.074	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Benzo[b]fluoranthene	0.070		0.036	0.0071	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Benzo[k]fluoranthene	0.032	J	0.036	0.0087	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Benzo[a]pyrene	0.045		0.036	0.0067	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Indeno[1,2,3-cd]pyrene	0.028	J	0.036	0.012	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
Benzo[g,h,i]perylene	0.031	J	0.036	0.012	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	09/25/13 07:37	10/07/13 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		25 - 110	09/25/13 07:37	10/07/13 14:22	1
Phenol-d5	61		31 - 110	09/25/13 07:37	10/07/13 14:22	1
Nitrobenzene-d5	56		25 - 115	09/25/13 07:37	10/07/13 14:22	1
2-Fluorobiphenyl	68		25 - 119	09/25/13 07:37	10/07/13 14:22	1
2,4,6-Tribromophenol	77		35 - 137	09/25/13 07:37	10/07/13 14:22	1
Terphenyl-d14	86		36 - 134	09/25/13 07:37	10/07/13 14:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2400	B	11	1.0	mg/Kg	☼	09/24/13 08:16	10/10/13 06:22	1
Antimony	<5.5		5.5	2.2	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Arsenic	3.2		2.8	0.55	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Barium	20		2.8	0.30	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Beryllium	0.50	J	1.1	0.098	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Boron	16		2.8	0.12	mg/Kg	☼	09/24/13 08:16	10/10/13 06:22	1
Cadmium	0.59		0.55	0.070	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Calcium	160000	B	55	15	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Chromium	5.1		0.55	0.064	mg/Kg	☼	09/24/13 08:16	10/10/13 06:22	1
Cobalt	2.2		1.4	0.099	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Copper	7.1		2.8	0.25	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Iron	5700		55	23	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Lead	30	B	1.4	0.41	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Magnesium	100000	B	28	5.7	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Manganese	210		2.8	0.15	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Nickel	5.9		2.8	0.27	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Potassium	650		28	1.7	mg/Kg	☼	09/24/13 08:16	10/10/13 06:22	1
Selenium	<2.8		2.8	0.98	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Silver	<1.4		1.4	0.10	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Sodium	670		55	7.4	mg/Kg	☼	09/24/13 08:16	10/10/13 06:22	1
Thallium	<2.8		2.8	1.2	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Vanadium	5.5		1.4	0.20	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5
Zinc	25	B	5.5	1.1	mg/Kg	☼	09/24/13 08:16	10/10/13 11:30	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.0	B	0.10	0.050	mg/L	☼	10/14/13 09:35	10/14/13 19:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B02-1

Lab Sample ID: 500-63499-3

Date Collected: 09/23/13 12:55

Matrix: Solid

Date Received: 09/24/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.7		0.50	0.010	mg/L		10/07/13 09:00	10/09/13 15:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/07/13 09:00	10/09/13 15:32	1
Boron	2.8		0.10	0.050	mg/L		10/07/13 09:00	10/09/13 15:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/07/13 09:00	10/09/13 15:32	1
Chromium	<0.025		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 15:32	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/09/13 15:32	1
Iron	0.77		0.20	0.20	mg/L		10/07/13 09:00	10/09/13 15:32	1
Lead	0.0053	J	0.0075	0.0050	mg/L		10/07/13 09:00	10/09/13 15:32	1
Manganese	0.051		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 15:32	1
Nickel	<0.025		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 15:32	1
Selenium	<0.050		0.050	0.010	mg/L		10/07/13 09:00	10/09/13 15:32	1
Silver	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/09/13 15:32	1
Zinc	1.3		0.10	0.020	mg/L		10/07/13 09:00	10/09/13 15:32	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/07/13 09:00	10/08/13 09:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/07/13 09:00	10/08/13 09:49	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/08/13 17:30	10/09/13 10:17	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.017	0.0080	mg/Kg	✱	09/25/13 15:45	09/26/13 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.27		0.200	0.200	SU			10/07/13 15:15	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B02-1 DUP

Lab Sample ID: 500-63499-4

Date Collected: 09/23/13 13:00

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 86.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Carbon tetrachloride	<0.0043	*	0.0043	0.00078	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Trichloroethene	<0.0043	*	0.0043	0.00071	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	09/23/13 13:00	09/27/13 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/23/13 13:00	09/27/13 21:03	1
Dibromofluoromethane	105		75 - 120	09/23/13 13:00	09/27/13 21:03	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	09/23/13 13:00	09/27/13 21:03	1
Toluene-d8 (Surr)	101		75 - 122	09/23/13 13:00	09/27/13 21:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B02-1 DUP

Lab Sample ID: 500-63499-4

Date Collected: 09/23/13 13:00

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Nitrobenzene	<0.038	*	0.038	0.012	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B02-1 DUP

Lab Sample ID: 500-63499-4

Date Collected: 09/23/13 13:00

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/25/13 07:37	10/07/13 14:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		25 - 110				09/25/13 07:37	10/07/13 14:44	1
Phenol-d5	63		31 - 110				09/25/13 07:37	10/07/13 14:44	1
Nitrobenzene-d5	56		25 - 115				09/25/13 07:37	10/07/13 14:44	1
2-Fluorobiphenyl	69		25 - 119				09/25/13 07:37	10/07/13 14:44	1
2,4,6-Tribromophenol	77		35 - 137				09/25/13 07:37	10/07/13 14:44	1
Terphenyl-d14	89		36 - 134				09/25/13 07:37	10/07/13 14:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	B	11	1.1	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Arsenic	9.3		0.57	0.11	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Barium	64		0.57	0.061	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Beryllium	0.66		0.23	0.020	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Boron	3.1		2.9	0.12	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Cadmium	0.66		0.11	0.015	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Calcium	10000	B	11	3.1	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Chromium	16		0.57	0.066	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Cobalt	10		0.29	0.020	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Copper	22		0.57	0.051	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Iron	21000		11	4.7	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Lead	16	B	0.29	0.085	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Magnesium	7600	B	5.7	1.2	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Manganese	430		0.57	0.031	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Nickel	22		0.57	0.056	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Potassium	1100		29	1.7	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Selenium	0.23	J	0.57	0.20	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Sodium	1200		57	7.7	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Thallium	0.25	J	0.57	0.24	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Vanadium	22		0.29	0.042	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1
Zinc	53	B	1.1	0.23	mg/Kg	☼	09/24/13 08:16	10/10/13 06:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.74	B	0.10	0.050	mg/L		10/14/13 09:35	10/14/13 19:23	1
Iron	<0.20		0.20	0.20	mg/L		10/14/13 09:35	10/14/13 19:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B02-1 DUP

Lab Sample ID: 500-63499-4

Date Collected: 09/23/13 13:00

Matrix: Solid

Date Received: 09/24/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.6		0.50	0.010	mg/L		10/07/13 09:00	10/09/13 15:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/07/13 09:00	10/09/13 15:38	1
Boron	2.7		0.10	0.050	mg/L		10/07/13 09:00	10/09/13 15:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/07/13 09:00	10/09/13 15:38	1
Chromium	0.011	J	0.025	0.010	mg/L		10/07/13 09:00	10/09/13 15:38	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/09/13 15:38	1
Iron	5.0		0.20	0.20	mg/L		10/07/13 09:00	10/09/13 15:38	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/07/13 09:00	10/09/13 15:38	1
Manganese	0.041		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 15:38	1
Nickel	<0.025		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 15:38	1
Selenium	<0.050		0.050	0.010	mg/L		10/07/13 09:00	10/09/13 15:38	1
Silver	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/09/13 15:38	1
Zinc	1.2		0.10	0.020	mg/L		10/07/13 09:00	10/09/13 15:38	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/07/13 09:00	10/08/13 09:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/07/13 09:00	10/08/13 09:52	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/08/13 17:30	10/09/13 10:19	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.018	0.0087	mg/Kg	☆	09/25/13 15:45	09/26/13 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.04		0.200	0.200	SU			10/07/13 15:20	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B02-2

Lab Sample ID: 500-63499-5

Date Collected: 09/23/13 13:05

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Chloromethane	<0.0042		0.0042	0.00087	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Dibromochloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Tetrachloroethene	<0.0042		0.0042	0.00063	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00074	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Vinyl acetate	<0.0042		0.0042	0.00065	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Vinyl chloride	<0.0042		0.0042	0.00087	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	09/23/13 13:05	09/27/13 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122	09/23/13 13:05	09/27/13 15:31	1
Dibromofluoromethane	100		75 - 120	09/23/13 13:05	09/27/13 15:31	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	09/23/13 13:05	09/27/13 15:31	1
Toluene-d8 (Surr)	97		75 - 122	09/23/13 13:05	09/27/13 15:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B02-2

Lab Sample ID: 500-63499-5

Date Collected: 09/23/13 13:05

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Nitrobenzene	<0.037	*	0.037	0.012	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B02-2

Lab Sample ID: 500-63499-5

Date Collected: 09/23/13 13:05

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/25/13 07:37	10/07/13 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110	09/25/13 07:37	10/07/13 15:06	1
Phenol-d5	62		31 - 110	09/25/13 07:37	10/07/13 15:06	1
Nitrobenzene-d5	57		25 - 115	09/25/13 07:37	10/07/13 15:06	1
2-Fluorobiphenyl	62		25 - 119	09/25/13 07:37	10/07/13 15:06	1
2,4,6-Tribromophenol	61		35 - 137	09/25/13 07:37	10/07/13 15:06	1
Terphenyl-d14	87		36 - 134	09/25/13 07:37	10/07/13 15:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5900	B	11	1.0	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Arsenic	8.0		0.56	0.11	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Barium	29		0.56	0.060	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Beryllium	0.44		0.22	0.020	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Boron	5.6		2.8	0.12	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Cadmium	0.76		0.11	0.014	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Calcium	56000	B	11	3.0	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Chromium	11		0.56	0.065	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Cobalt	7.2		0.28	0.020	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Copper	20		0.56	0.050	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Iron	15000		11	4.6	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Lead	9.5	B	0.28	0.083	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Magnesium	25000	B	5.6	1.2	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Manganese	340		0.56	0.030	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Nickel	18		0.56	0.055	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Potassium	1200		28	1.7	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Sodium	580		56	7.5	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Vanadium	15		0.28	0.041	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1
Zinc	40	B	1.1	0.23	mg/Kg	☼	09/24/13 08:16	10/10/13 06:35	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		10/07/13 09:00	10/09/13 15:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/07/13 09:00	10/09/13 15:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Client Sample ID: 846D-14-B02-2

Lab Sample ID: 500-63499-5

Date Collected: 09/23/13 13:05

Matrix: Solid

Date Received: 09/24/13 06:30

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.9		0.10	0.050	mg/L		10/07/13 09:00	10/09/13 15:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/07/13 09:00	10/09/13 15:44	1
Chromium	<0.025		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 15:44	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/09/13 15:44	1
Iron	4.5		0.20	0.20	mg/L		10/07/13 09:00	10/09/13 15:44	1
Lead	0.0050	J	0.0075	0.0050	mg/L		10/07/13 09:00	10/09/13 15:44	1
Manganese	0.046		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 15:44	1
Nickel	<0.025		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 15:44	1
Selenium	<0.050		0.050	0.010	mg/L		10/07/13 09:00	10/09/13 15:44	1
Silver	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/09/13 15:44	1
Zinc	0.89		0.10	0.020	mg/L		10/07/13 09:00	10/09/13 15:44	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/07/13 09:00	10/08/13 09:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/07/13 09:00	10/08/13 09:56	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/08/13 17:30	10/09/13 10:27	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0086	mg/Kg	☼	09/25/13 15:45	09/26/13 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01		0.200	0.200	SU			10/07/13 15:24	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-e.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericalinc.com	Project Information Project Name: <u>US6/IL7 Wiley & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63499</u> Sample Temp: <u>3, 2, 3, 5, 3, 6</u> Matrix Key:															
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other																
ANALYSES																		
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments		
1	846D-14-B01-1	9/23/13	1:15	S	X	X					X	X	X	X		0-5.5'		
2	846D-14-B01-2		1:20	S	X	X					X	X	X	X		5.5-11'		
3	846D-14-B02-1		12:55	S	X	X					X	X	X	X		0-5.5'		
4	846D-14-B02-1 DUP		1:00	S	X	X					X	X	X	X		0-5.5'		
5	846D-14-B02-2	↓	1:05	S	X	X					X	X	X	X		5.5-11'		
					Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time		
Relinquished by: <u>Flora Alford (AEI)</u>					9/23/13	3:20											9-25-13 BADA	
Relinquished by: <u>Flora Alford (AEI)</u>					9-23-13	16:07												9/24/13 06:30
Relinquished by: _____					Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15542 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59859 Longitude: -87.99601

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1978075033 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59859 Longitude: -87.99601

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-16-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-16. SEE FIGURE 4 AND TABLE 3j OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-63499-3

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

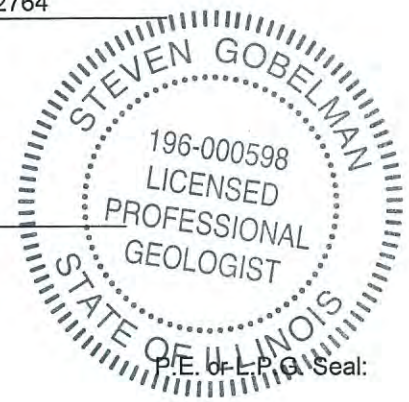
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-16

Residence

Sample ID	846D-16-B01	846D-16-B02							
Sample Depth (ft)	0-7	0-7							
Sample Date	9/23/2013	9/23/2013							
PID	0	0							
Sample pH	7.88	7.88							
Matrix	Soil	Soil							
No Contaminants of Concern Noted.									
			¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non- Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63499-3
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/15/2013 3:48:39 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-3

Client Sample ID: 846D-16-B01

Lab Sample ID: 500-63499-17

Date Collected: 09/23/13 11:45

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0031	J	0.0047	0.0020	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	09/23/13 11:45	09/27/13 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/23/13 11:45	09/27/13 19:43	1
Dibromofluoromethane	97		75 - 120	09/23/13 11:45	09/27/13 19:43	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 134	09/23/13 11:45	09/27/13 19:43	1
Toluene-d8 (Surr)	98		75 - 122	09/23/13 11:45	09/27/13 19:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-3

Client Sample ID: 846D-16-B01

Lab Sample ID: 500-63499-17

Date Collected: 09/23/13 11:45

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Nitrobenzene	<0.037	*	0.037	0.012	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Phenanthrene	0.022	J	0.037	0.016	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Fluoranthene	0.028	J	0.037	0.015	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Pyrene	0.049		0.037	0.013	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Benzo[a]anthracene	0.033	J	0.037	0.0078	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-3

Client Sample ID: 846D-16-B01

Lab Sample ID: 500-63499-17

Date Collected: 09/23/13 11:45

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.067		0.037	0.0084	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Benzo[b]fluoranthene	0.17		0.037	0.0072	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Benzo[k]fluoranthene	0.069		0.037	0.0088	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Benzo[a]pyrene	0.051		0.037	0.0068	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Indeno[1,2,3-cd]pyrene	0.026	J	0.037	0.013	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
Benzo[g,h,i]perylene	0.029	J	0.037	0.013	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/25/13 07:37	10/07/13 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		25 - 110	09/25/13 07:37	10/07/13 19:27	1
Phenol-d5	58		31 - 110	09/25/13 07:37	10/07/13 19:27	1
Nitrobenzene-d5	45		25 - 115	09/25/13 07:37	10/07/13 19:27	1
2-Fluorobiphenyl	61		25 - 119	09/25/13 07:37	10/07/13 19:27	1
2,4,6-Tribromophenol	67		35 - 137	09/25/13 07:37	10/07/13 19:27	1
Terphenyl-d14	90		36 - 134	09/25/13 07:37	10/07/13 19:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		10	0.96	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Antimony	<1.0		1.0	0.42	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Arsenic	9.8		0.52	0.10	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Barium	56		0.52	0.056	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Beryllium	0.65		0.21	0.018	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Boron	4.1		2.6	0.11	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Cadmium	0.85		0.10	0.013	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Calcium	9600		10	2.8	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Chromium	16		0.52	0.061	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Cobalt	11		0.26	0.019	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Copper	21		0.52	0.046	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Iron	22000		10	4.3	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Lead	28		0.26	0.078	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Magnesium	6600		5.2	1.1	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Manganese	420		0.52	0.028	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Nickel	19		0.52	0.051	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Potassium	1400		26	1.6	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Selenium	0.25	J	0.52	0.19	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Sodium	97		52	7.0	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Thallium	0.32	J	0.52	0.22	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Vanadium	22		0.26	0.039	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1
Zinc	75		1.0	0.21	mg/Kg	☼	09/24/13 16:15	10/10/13 11:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/14/13 09:35	10/14/13 20:09	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/14/13 09:35	10/14/13 20:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-3

Client Sample ID: 846D-16-B01

Lab Sample ID: 500-63499-17

Date Collected: 09/23/13 11:45

Matrix: Solid

Date Received: 09/24/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.30		0.025	0.010	mg/L		10/14/13 09:35	10/14/13 20:09	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		10/07/13 09:00	10/09/13 17:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/07/13 09:00	10/09/13 17:17	1
Boron	1.9		0.10	0.050	mg/L		10/07/13 09:00	10/09/13 17:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/07/13 09:00	10/09/13 17:17	1
Chromium	0.035		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 17:17	1
Cobalt	0.0079	J	0.025	0.0050	mg/L		10/07/13 09:00	10/09/13 17:17	1
Iron	33		0.20	0.20	mg/L		10/07/13 09:00	10/09/13 17:17	1
Lead	0.034		0.0075	0.0050	mg/L		10/07/13 09:00	10/09/13 17:17	1
Manganese	0.20		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 17:17	1
Nickel	0.030		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 17:17	1
Selenium	<0.050		0.050	0.010	mg/L		10/07/13 09:00	10/09/13 17:17	1
Silver	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/09/13 17:17	1
Zinc	1.0		0.10	0.020	mg/L		10/07/13 09:00	10/09/13 17:17	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/07/13 09:00	10/08/13 10:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/07/13 09:00	10/08/13 10:46	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000067	J	0.00020	0.000020	mg/L		10/08/13 17:30	10/09/13 11:03	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.071		0.017	0.0081	mg/Kg	☼	09/25/13 15:45	09/26/13 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU			10/07/13 16:20	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-3

Client Sample ID: 846D-16-B02

Lab Sample ID: 500-63499-18

Date Collected: 09/23/13 11:40

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 84.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Benzene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Chloroform	<0.0041		0.0041	0.00048	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Chloromethane	<0.0041		0.0041	0.00087	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
1,1,1-Dichloroethane	<0.0041		0.0041	0.00067	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
1,2-Dichloropropane	<0.0041		0.0041	0.00063	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Vinyl chloride	<0.0041		0.0041	0.00087	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1
Xylenes, Total	<0.0083		0.0083	0.00037	mg/Kg	☼	09/23/13 11:40	09/27/13 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/23/13 11:40	09/27/13 20:06	1
Dibromofluoromethane	101		75 - 120	09/23/13 11:40	09/27/13 20:06	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	09/23/13 11:40	09/27/13 20:06	1
Toluene-d8 (Surr)	95		75 - 122	09/23/13 11:40	09/27/13 20:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-3

Client Sample ID: 846D-16-B02

Lab Sample ID: 500-63499-18

Date Collected: 09/23/13 11:40

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Nitrobenzene	<0.039	*	0.039	0.012	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Dibenzofuran	<0.19		0.19	0.047	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
4-Nitroaniline	<0.39		0.39	0.079	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Butyl benzyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Benzo[a]anthracene	<0.039		0.039	0.0081	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-3

Client Sample ID: 846D-16-B02

Lab Sample ID: 500-63499-18

Date Collected: 09/23/13 11:40

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Benzo[b]fluoranthene	<0.039		0.039	0.0075	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Benzo[k]fluoranthene	<0.039		0.039	0.0092	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	09/25/13 07:37	10/07/13 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		25 - 110	09/25/13 07:37	10/07/13 19:49	1
Phenol-d5	62		31 - 110	09/25/13 07:37	10/07/13 19:49	1
Nitrobenzene-d5	51		25 - 115	09/25/13 07:37	10/07/13 19:49	1
2-Fluorobiphenyl	59		25 - 119	09/25/13 07:37	10/07/13 19:49	1
2,4,6-Tribromophenol	64		35 - 137	09/25/13 07:37	10/07/13 19:49	1
Terphenyl-d14	93		36 - 134	09/25/13 07:37	10/07/13 19:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		12	1.1	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Antimony	<1.2		1.2	0.48	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Arsenic	10		0.59	0.12	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Barium	47		0.59	0.063	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Beryllium	0.66		0.24	0.021	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Boron	8.8		3.0	0.12	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Cadmium	1.0		0.12	0.015	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Calcium	47000		12	3.2	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Chromium	16		0.59	0.069	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Cobalt	11		0.30	0.021	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Copper	28		0.59	0.052	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Iron	21000		12	4.9	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Lead	16		0.30	0.088	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Magnesium	19000		5.9	1.2	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Manganese	450		0.59	0.032	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Nickel	26		0.59	0.058	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Potassium	2200		30	1.8	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Sodium	1800		59	7.9	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Thallium	0.40	J	0.59	0.25	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Vanadium	22		0.30	0.044	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1
Zinc	56		1.2	0.24	mg/Kg	☼	09/24/13 16:15	10/10/13 11:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/14/13 09:35	10/14/13 20:22	1
Chromium	<0.025		0.025	0.010	mg/L		10/14/13 09:35	10/14/13 20:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-3

Client Sample ID: 846D-16-B02

Lab Sample ID: 500-63499-18

Date Collected: 09/23/13 11:40

Matrix: Solid

Date Received: 09/24/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/14/13 09:35	10/14/13 20:22	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/14/13 09:35	10/14/13 20:22	1
Manganese	1.4		0.025	0.010	mg/L		10/14/13 09:35	10/14/13 20:22	1
Nickel	<0.025		0.025	0.010	mg/L		10/14/13 09:35	10/14/13 20:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.4		0.50	0.010	mg/L		10/07/13 09:00	10/09/13 17:23	1
Beryllium	0.0059		0.0040	0.0040	mg/L		10/07/13 09:00	10/09/13 17:23	1
Boron	1.9		0.10	0.050	mg/L		10/07/13 09:00	10/09/13 17:23	1
Cadmium	0.0041	J	0.0050	0.0020	mg/L		10/07/13 09:00	10/09/13 17:23	1
Chromium	0.11		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 17:23	1
Cobalt	0.041		0.025	0.0050	mg/L		10/07/13 09:00	10/09/13 17:23	1
Iron	130		0.20	0.20	mg/L		10/07/13 09:00	10/09/13 17:23	1
Lead	0.072		0.0075	0.0050	mg/L		10/07/13 09:00	10/09/13 17:23	1
Manganese	0.64		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 17:23	1
Nickel	0.15		0.025	0.010	mg/L		10/07/13 09:00	10/09/13 17:23	1
Selenium	<0.050		0.050	0.010	mg/L		10/07/13 09:00	10/09/13 17:23	1
Silver	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/09/13 17:23	1
Zinc	1.2		0.10	0.020	mg/L		10/07/13 09:00	10/09/13 17:23	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/14/13 09:35	10/14/13 16:21	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/07/13 09:00	10/08/13 10:50	1
Thallium	0.0037		0.0020	0.0020	mg/L		10/07/13 09:00	10/08/13 10:50	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00021		0.00020	0.000020	mg/L		10/08/13 17:30	10/09/13 11:06	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.019	0.0088	mg/Kg	☼	09/25/13 15:45	09/26/13 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU			10/07/13 16:25	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-3

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>456 / IL7 Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEI</u>	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63499</u> Sample Temp: <u>32.3, 5.3, 6</u> Matrix Key: <ul style="list-style-type: none"> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other 													
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
17	846D-16-B01	9/22/13	11:45	S	X	X					X	X	X	X		0-7'
18	846D-16-B02	9/23/13	11:40	S	X	X					X	X	X	X		0-7'
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
Relinquished by: <u>Timothy Wright (AEI)</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	9/23/13 / 1500				
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	9/23/13 / 0630				
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	9/24/13 / 0630				



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Approximately 15442 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59867 Longitude: -87.99429
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59867 Longitude: -87.99429

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-17-B03 WAS SAMPLED ADJACENT TO ISGS SITE NO. 846D-17. SEE FIGURE 4 AND TABLE 3k OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NO.: 500-63499-4

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

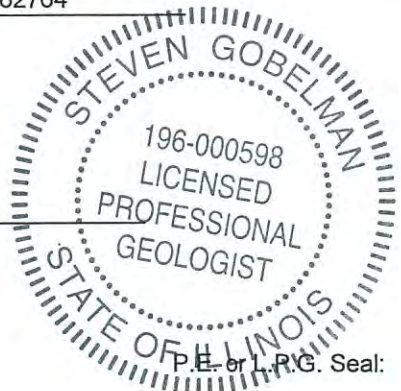
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-17

Commercial Buildings

Sample ID	846D-17-B03-1	846D-17-B03-2								
Sample Depth (ft)	0-5.5	5.5-11								
Sample Date	9/23/2013	9/23/2013								
PID	0	0								
Sample pH	7.87	8.24								
Matrix	Soil	Soil								
Inorganic Compounds, Total (mg/kg)										
Arsenic	13	1.3	9.7	11.3	NA	11.3	11.3	NA	13	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63499-4
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/15/2013 3:49:00 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-4

Client Sample ID: 846D-17-B03-1

Lab Sample ID: 500-63499-23

Date Collected: 09/23/13 10:50

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 82.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	09/23/13 10:50	09/30/13 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/23/13 10:50	09/30/13 13:41	1
Dibromofluoromethane	98		75 - 120	09/23/13 10:50	09/30/13 13:41	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	09/23/13 10:50	09/30/13 13:41	1
Toluene-d8 (Surr)	98		75 - 122	09/23/13 10:50	09/30/13 13:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	10/02/13 07:25	10/07/13 21:38	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	10/02/13 07:25	10/07/13 21:38	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 21:38	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 21:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-4

Client Sample ID: 846D-17-B03-1

Lab Sample ID: 500-63499-23

Date Collected: 09/23/13 10:50

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Isophorone	<0.20		0.20	0.044	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
2-Nitrophenol	<0.40		0.40	0.062	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Carbazole	<0.20		0.20	0.056	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Pyrene	<0.040		0.040	0.014	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1
Benzo[a]anthracene	<0.040		0.040	0.0083	mg/Kg	*	10/02/13 07:25	10/07/13 21:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-4

Client Sample ID: 846D-17-B03-1

Lab Sample ID: 500-63499-23

Date Collected: 09/23/13 10:50

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	10/02/13 07:25	10/07/13 21:38	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	10/02/13 07:25	10/07/13 21:38	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	10/02/13 07:25	10/07/13 21:38	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	10/02/13 07:25	10/07/13 21:38	1
Benzo[b]fluoranthene	<0.040		0.040	0.0077	mg/Kg	☼	10/02/13 07:25	10/07/13 21:38	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	10/02/13 07:25	10/07/13 21:38	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	10/02/13 07:25	10/07/13 21:38	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 21:38	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	10/02/13 07:25	10/07/13 21:38	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 21:38	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	10/02/13 07:25	10/07/13 21:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		25 - 110	10/02/13 07:25	10/07/13 21:38	1
Phenol-d5	63		31 - 110	10/02/13 07:25	10/07/13 21:38	1
Nitrobenzene-d5	56		25 - 115	10/02/13 07:25	10/07/13 21:38	1
2-Fluorobiphenyl	59		25 - 119	10/02/13 07:25	10/07/13 21:38	1
2,4,6-Tribromophenol	68		35 - 137	10/02/13 07:25	10/07/13 21:38	1
Terphenyl-d14	107		36 - 134	10/02/13 07:25	10/07/13 21:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		12	1.1	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Antimony	<1.2		1.2	0.48	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Arsenic	13		0.60	0.12	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Barium	110		0.60	0.064	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Beryllium	0.76		0.24	0.021	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Boron	2.9	J	3.0	0.13	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Cadmium	0.84		0.12	0.015	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Calcium	2700		12	3.2	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Chromium	20		0.60	0.069	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Cobalt	11		0.30	0.021	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Copper	35		0.60	0.053	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Iron	29000		12	4.9	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Lead	18		0.30	0.089	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Magnesium	4300		6.0	1.2	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Manganese	450		0.60	0.032	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Nickel	38		0.60	0.058	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Potassium	1200		30	1.8	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Selenium	0.54	J	0.60	0.21	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Sodium	110		60	8.0	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Thallium	0.44	J	0.60	0.25	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Vanadium	23		0.30	0.044	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1
Zinc	69		1.2	0.24	mg/Kg	☼	09/24/13 16:15	10/10/13 13:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.91		0.10	0.050	mg/L		10/14/13 09:45	10/14/13 20:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-4

Client Sample ID: 846D-17-B03-1

Lab Sample ID: 500-63499-23

Date Collected: 09/23/13 10:50

Matrix: Solid

Date Received: 09/24/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.4		0.50	0.010	mg/L		10/07/13 09:00	10/08/13 22:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/07/13 09:00	10/08/13 22:15	1
Boron	2.0		0.10	0.050	mg/L		10/11/13 09:30	10/12/13 12:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/07/13 09:00	10/08/13 22:15	1
Chromium	<0.025		0.025	0.010	mg/L		10/07/13 09:00	10/08/13 22:15	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/08/13 22:15	1
Iron	0.68		0.20	0.20	mg/L		10/07/13 09:00	10/08/13 22:15	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/07/13 09:00	10/08/13 22:15	1
Manganese	0.016	J	0.025	0.010	mg/L		10/07/13 09:00	10/08/13 22:15	1
Nickel	<0.025		0.025	0.010	mg/L		10/07/13 09:00	10/08/13 22:15	1
Selenium	<0.050		0.050	0.010	mg/L		10/07/13 09:00	10/08/13 22:15	1
Silver	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/08/13 22:15	1
Zinc	1.0		0.10	0.020	mg/L		10/07/13 09:00	10/08/13 22:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/07/13 09:00	10/08/13 11:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/07/13 09:00	10/08/13 11:27	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/08/13 15:30	10/09/13 11:55	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.064		0.018	0.0083	mg/Kg	✱	09/25/13 15:45	09/26/13 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.87		0.200	0.200	SU			10/07/13 16:57	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-4

Client Sample ID: 846D-17-B03-2

Lab Sample ID: 500-63499-24

Date Collected: 09/23/13 10:55

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 84.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0040		0.0040	0.0017	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Benzene	<0.0040		0.0040	0.00054	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Bromoform	<0.0040		0.0040	0.00091	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Carbon disulfide	<0.0040		0.0040	0.00059	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Carbon tetrachloride	<0.0040		0.0040	0.00072	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Chlorobenzene	<0.0040		0.0040	0.00040	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Chloroform	<0.0040		0.0040	0.00045	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Chloromethane	<0.0040		0.0040	0.00083	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00052	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Dibromochloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
1,1-Dichloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
1,1-Dichloroethene	<0.0040		0.0040	0.00064	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
1,2-Dichloropropane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00052	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Ethylbenzene	<0.0040		0.0040	0.00080	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
2-Hexanone	<0.0040		0.0040	0.0011	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0010	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00065	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Styrene	<0.0040		0.0040	0.00052	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00080	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Tetrachloroethene	<0.0040		0.0040	0.00060	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Toluene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00054	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00071	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00054	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Trichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Vinyl acetate	<0.0040		0.0040	0.00062	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Vinyl chloride	<0.0040		0.0040	0.00083	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1
Xylenes, Total	<0.0079		0.0079	0.00036	mg/Kg	☼	09/23/13 10:55	09/30/13 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	09/23/13 10:55	09/30/13 14:04	1
Dibromofluoromethane	96		75 - 120	09/23/13 10:55	09/30/13 14:04	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 134	09/23/13 10:55	09/30/13 14:04	1
Toluene-d8 (Surr)	97		75 - 122	09/23/13 10:55	09/30/13 14:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-4

Client Sample ID: 846D-17-B03-2

Lab Sample ID: 500-63499-24

Date Collected: 09/23/13 10:55

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-4

Client Sample ID: 846D-17-B03-2

Lab Sample ID: 500-63499-24

Date Collected: 09/23/13 10:55

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	10/02/13 07:25	10/07/13 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		25 - 110				10/02/13 07:25	10/07/13 21:58	1
Phenol-d5	69		31 - 110				10/02/13 07:25	10/07/13 21:58	1
Nitrobenzene-d5	62		25 - 115				10/02/13 07:25	10/07/13 21:58	1
2-Fluorobiphenyl	63		25 - 119				10/02/13 07:25	10/07/13 21:58	1
2,4,6-Tribromophenol	77		35 - 137				10/02/13 07:25	10/07/13 21:58	1
Terphenyl-d14	112		36 - 134				10/02/13 07:25	10/07/13 21:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8700		12	1.1	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Arsenic	9.7		0.58	0.12	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Barium	34		0.58	0.062	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Beryllium	0.56		0.23	0.021	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Boron	7.5		2.9	0.12	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Cadmium	0.92		0.12	0.015	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Calcium	48000		12	3.2	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Chromium	15		0.58	0.068	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Cobalt	11		0.29	0.021	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Copper	28		0.58	0.052	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Iron	21000		12	4.8	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Lead	14		0.29	0.087	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Magnesium	26000		5.8	1.2	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Manganese	320		0.58	0.032	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Nickel	26		0.58	0.057	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Potassium	1900		29	1.8	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Sodium	180		58	7.8	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Thallium	0.32 J		0.58	0.25	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Vanadium	18		0.29	0.043	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1
Zinc	57		1.2	0.24	mg/Kg	☼	09/24/13 16:15	10/10/13 13:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/14/13 09:45	10/14/13 20:58	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/14/13 09:45	10/14/13 20:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-4

Client Sample ID: 846D-17-B03-2

Lab Sample ID: 500-63499-24

Date Collected: 09/23/13 10:55

Matrix: Solid

Date Received: 09/24/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		10/07/13 09:00	10/08/13 22:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/07/13 09:00	10/08/13 22:21	1
Boron	1.5		0.10	0.050	mg/L		10/11/13 09:30	10/12/13 12:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/07/13 09:00	10/08/13 22:21	1
Chromium	0.016	J	0.025	0.010	mg/L		10/07/13 09:00	10/08/13 22:21	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/08/13 22:21	1
Iron	12		0.20	0.20	mg/L		10/07/13 09:00	10/08/13 22:21	1
Lead	0.0086		0.0075	0.0050	mg/L		10/07/13 09:00	10/08/13 22:21	1
Manganese	0.094		0.025	0.010	mg/L		10/07/13 09:00	10/08/13 22:21	1
Nickel	0.015	J	0.025	0.010	mg/L		10/07/13 09:00	10/08/13 22:21	1
Selenium	<0.050		0.050	0.010	mg/L		10/07/13 09:00	10/08/13 22:21	1
Silver	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/08/13 22:21	1
Zinc	1.0		0.10	0.020	mg/L		10/07/13 09:00	10/08/13 22:21	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/07/13 09:00	10/08/13 11:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/07/13 09:00	10/08/13 11:30	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/08/13 15:30	10/09/13 11:57	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0085	mg/Kg	✱	09/25/13 15:45	09/26/13 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU			10/07/13 17:02	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-4

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Approximately 15320 to 15440 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59867 Longitude: -87.99312

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59867 Longitude: -87.99312

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-18-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 846D-18. SEE FIGURE 4 AND TABLE 3I OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICAN JOB ID NO.: 500-63499-5

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 846D-18
Farmland**

Sample ID	846D-18-B01							
Sample Depth (ft)	0-5							
Sample Date	9/23/2013							
PID	0							
Sample pH	7.59							
Matrix	Soil							
No Contaminants of Concern Noted.								
		¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non- Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63499-5
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/15/2013 3:50:51 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-5

Client Sample ID: 846D-18-B01

Lab Sample ID: 500-63499-25

Date Collected: 09/23/13 10:40

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 87.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0046		0.0042	0.0018	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Bromodichloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Bromoform	<0.0042		0.0042	0.00097	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Carbon tetrachloride	<0.0042		0.0042	0.00077	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Chloroform	<0.0042		0.0042	0.00049	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Chloromethane	<0.0042		0.0042	0.00089	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00060	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00056	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Dibromochloromethane	<0.0042		0.0042	0.00074	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
1,1,1-Dichloroethane	<0.0042		0.0042	0.00068	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00056	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Ethylbenzene	<0.0042		0.0042	0.00086	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00070	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Styrene	<0.0042		0.0042	0.00056	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Tetrachloroethene	<0.0042		0.0042	0.00065	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00076	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00058	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Trichloroethene	<0.0042		0.0042	0.00070	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Vinyl acetate	<0.0042		0.0042	0.00067	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Vinyl chloride	<0.0042		0.0042	0.00089	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1
Xylenes, Total	<0.0085		0.0085	0.00038	mg/Kg	☼	09/23/13 10:40	09/30/13 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/23/13 10:40	09/30/13 14:27	1
Dibromofluoromethane	96		75 - 120	09/23/13 10:40	09/30/13 14:27	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	09/23/13 10:40	09/30/13 14:27	1
Toluene-d8 (Surr)	97		75 - 122	09/23/13 10:40	09/30/13 14:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-5

Client Sample ID: 846D-18-B01

Lab Sample ID: 500-63499-25

Date Collected: 09/23/13 10:40

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Hexachlorobenzene	<0.075		0.075	0.0074	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-5

Client Sample ID: 846D-18-B01

Lab Sample ID: 500-63499-25

Date Collected: 09/23/13 10:40

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	10/02/13 07:25	10/07/13 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		25 - 110	10/02/13 07:25	10/07/13 22:17	1
Phenol-d5	59		31 - 110	10/02/13 07:25	10/07/13 22:17	1
Nitrobenzene-d5	53		25 - 115	10/02/13 07:25	10/07/13 22:17	1
2-Fluorobiphenyl	57		25 - 119	10/02/13 07:25	10/07/13 22:17	1
2,4,6-Tribromophenol	75		35 - 137	10/02/13 07:25	10/07/13 22:17	1
Terphenyl-d14	119		36 - 134	10/02/13 07:25	10/07/13 22:17	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00075	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
alpha-BHC	<0.0019		0.0019	0.00046	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
alpha-Chlordane	<0.0019		0.0019	0.00092	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
beta-BHC	<0.0019		0.0019	0.00056	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
4,4'-DDD	<0.0019		0.0019	0.00036	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
4,4'-DDE	<0.0019		0.0019	0.00030	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
4,4'-DDT	<0.0019		0.0019	0.00096	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
delta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
Endosulfan I	<0.0019		0.0019	0.00080	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
Endosulfan sulfate	<0.0019		0.0019	0.00033	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
Endrin	<0.0019		0.0019	0.00025	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
Endrin ketone	<0.0019		0.0019	0.00041	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00039	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
gamma-Chlordane	<0.0019		0.0019	0.00048	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
Heptachlor	<0.0019		0.0019	0.00076	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
Heptachlor epoxide	<0.0019		0.0019	0.00065	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
Methoxychlor	<0.0090		0.0090	0.00035	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1
Toxaphene	<0.018		0.018	0.0077	mg/Kg	☼	10/02/13 18:42	10/04/13 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	72		56 - 128	10/02/13 18:42	10/04/13 13:35	1
Tetrachloro-m-xylene	50		45 - 112	10/02/13 18:42	10/04/13 13:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-5

Client Sample ID: 846D-18-B01

Lab Sample ID: 500-63499-25

Date Collected: 09/23/13 10:40

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 87.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		11	1.0	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Arsenic	11		0.56	0.11	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Barium	110		0.56	0.060	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Beryllium	0.77		0.22	0.020	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Boron	2.4	J	2.8	0.12	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Cadmium	0.68		0.11	0.014	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Calcium	2400		11	3.0	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Chromium	18		0.56	0.065	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Cobalt	16		0.28	0.020	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Copper	19		0.56	0.049	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Iron	24000		11	4.6	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Lead	18		0.28	0.083	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Magnesium	3200		5.6	1.1	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Manganese	1700		5.6	0.30	mg/Kg	☼	09/24/13 16:15	10/11/13 12:49	10
Nickel	22		0.56	0.055	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Potassium	1100		28	1.7	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Selenium	0.69		0.56	0.20	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Sodium	610		56	7.5	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Vanadium	26		0.28	0.041	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1
Zinc	48		1.1	0.23	mg/Kg	☼	09/24/13 16:15	10/10/13 13:21	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2		0.50	0.010	mg/L		10/07/13 09:00	10/08/13 22:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/07/13 09:00	10/08/13 22:42	1
Boron	1.8		0.10	0.050	mg/L		10/11/13 09:30	10/12/13 12:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/07/13 09:00	10/08/13 22:42	1
Chromium	<0.025		0.025	0.010	mg/L		10/07/13 09:00	10/08/13 22:42	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/08/13 22:42	1
Iron	4.9		0.20	0.20	mg/L		10/07/13 09:00	10/08/13 22:42	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/07/13 09:00	10/08/13 22:42	1
Manganese	0.042		0.025	0.010	mg/L		10/07/13 09:00	10/08/13 22:42	1
Nickel	<0.025		0.025	0.010	mg/L		10/07/13 09:00	10/08/13 22:42	1
Selenium	<0.050		0.050	0.010	mg/L		10/07/13 09:00	10/08/13 22:42	1
Silver	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/08/13 22:42	1
Zinc	0.91		0.10	0.020	mg/L		10/07/13 09:00	10/08/13 22:42	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/07/13 09:00	10/08/13 11:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/07/13 09:00	10/08/13 11:33	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/08/13 15:30	10/09/13 11:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-5

Client Sample ID: 846D-18-B01

Lab Sample ID: 500-63499-25

Date Collected: 09/23/13 10:40

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 87.9

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.017	0.0082	mg/Kg	☼	09/25/13 15:45	09/26/13 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.59		0.200	0.200	SU			10/07/13 17:07	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-5

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>456/IL7 Wimp & Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEI</u>	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63499</u> Sample Temp: <u>32.5</u> Matrix Key: <u>36</u>													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
25	846D-18-B01	9/23/13	10:40	S	X	X			X	No PCBs	X	X	X	X		0-5'
Relinquished by: <u>Richard Yune (AEI)</u> Date/Time: <u>9/23/13 3:20</u> Received by: <u>[Signature]</u> Date/Time: <u>9-23-13/1526</u>																
Relinquished by: <u>[Signature]</u> Date/Time: <u>9-23-13/1607</u> Received by: <u>[Signature]</u> Date/Time: <u>9/24/13 0630</u>																
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____																



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15103 to 15399 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59853 Longitude: -87.98974
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59853 Longitude: -87.98974

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 846D-19-B01 THROUGH -B05 WERE SAMPLED ADJACENT TO SITE NO. 846D-19. SEE FIGURES 4 & 5, AND TABLE 3m OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-63578-5 AND 500-63234-1

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 846D-19
Vacant Lot**

Sample ID	846D-19-B01	846D-19-B01 DUP	846D-19-B02							
Sample Depth (ft)	0-3	0-3	0-3							
Sample Date	9/24/2013	9/24/2013	9/24/2013							
PID	0	0	0							
Sample pH	8.37	8.36	7.87							
Matrix	Soil	Soil	Soil							
Inorganic Compounds, Total (mg/kg)										
Arsenic	7.6	9.7	8.8	11.3	NA	11.3	NA	13	NA	NA

Sample ID	846D-19-B03	846D-19-B04	846D-19-B05							
Sample Depth (ft)	0-3	0-3	0-3							
Sample Date	9/24/2013	9/24/2013	9/18/2013							
PID	0	0	0							
Sample pH	8.33	7.66	8.16							
Matrix	Soil	Soil	Soil							
Inorganic Compounds, Total (mg/kg)										
Arsenic	8.8	8.2	13	1.3	11.3	NA	11.3	13	NA	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63234-1
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/10/2013 2:34:26 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-1

Client Sample ID: 846D-19-B05

Lab Sample ID: 500-63234-1

Date Collected: 09/18/13 13:50

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0040		0.0040	0.0017	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Bromoform	<0.0040		0.0040	0.00092	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Chloromethane	<0.0040		0.0040	0.00084	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
1,1-Dichloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
1,1-Dichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Ethylbenzene	<0.0040		0.0040	0.00081	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0011	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00066	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Tetrachloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Vinyl chloride	<0.0040		0.0040	0.00084	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1
Xylenes, Total	<0.0080		0.0080	0.00036	mg/Kg	☼	09/18/13 13:50	09/20/13 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/18/13 13:50	09/20/13 13:45	1
Dibromofluoromethane	97		75 - 120	09/18/13 13:50	09/20/13 13:45	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	09/18/13 13:50	09/20/13 13:45	1
Toluene-d8 (Surr)	100		75 - 122	09/18/13 13:50	09/20/13 13:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-1

Client Sample ID: 846D-19-B05

Lab Sample ID: 500-63234-1

Date Collected: 09/18/13 13:50

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Phenanthrene	0.017	J	0.038	0.016	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-1

Client Sample ID: 846D-19-B05

Lab Sample ID: 500-63234-1

Date Collected: 09/18/13 13:50

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/19/13 18:30	09/27/13 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		25 - 110	09/19/13 18:30	09/27/13 19:24	1
Phenol-d5	72		31 - 110	09/19/13 18:30	09/27/13 19:24	1
Nitrobenzene-d5	69		25 - 115	09/19/13 18:30	09/27/13 19:24	1
2-Fluorobiphenyl	67		25 - 119	09/19/13 18:30	09/27/13 19:24	1
2,4,6-Tribromophenol	73		35 - 137	09/19/13 18:30	09/27/13 19:24	1
Terphenyl-d14	70		36 - 134	09/19/13 18:30	09/27/13 19:24	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
delta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
Endosulfan I	<0.0019		0.0019	0.00081	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
Methoxychlor	<0.0092		0.0092	0.00036	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1
Toxaphene	<0.019		0.019	0.0078	mg/Kg	☼	09/20/13 07:10	09/25/13 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		56 - 128	09/20/13 07:10	09/25/13 11:04	1
Tetrachloro-m-xylene	48		45 - 112	09/20/13 07:10	09/25/13 11:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-1

Client Sample ID: 846D-19-B05

Lab Sample ID: 500-63234-1

Date Collected: 09/18/13 13:50

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7900	B	11	1.0	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Arsenic	13		0.57	0.11	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Barium	36		0.57	0.061	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Beryllium	0.57		0.23	0.020	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Boron	6.7		2.8	0.12	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Cadmium	0.46		0.11	0.014	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Calcium	53000	B	110	31	mg/Kg	☼	09/19/13 08:30	10/08/13 00:23	10
Chromium	14		0.57	0.066	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Cobalt	12		0.28	0.020	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Copper	27	B	0.57	0.050	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Iron	19000		11	4.7	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Lead	14	B	0.28	0.084	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Magnesium	26000	B	5.7	1.2	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Manganese	590		5.7	0.31	mg/Kg	☼	09/19/13 08:30	10/08/13 00:23	10
Nickel	26	B	0.57	0.056	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Potassium	1500		28	1.7	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Sodium	950		57	7.6	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Thallium	0.53	J	0.57	0.24	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Vanadium	18	B	0.28	0.042	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1
Zinc	53		1.1	0.23	mg/Kg	☼	09/19/13 08:30	10/06/13 19:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/08/13 08:00	10/09/13 03:38	1
Chromium	<0.025		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 03:38	1
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 03:38	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 03:38	1
Manganese	0.67		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 03:38	1
Nickel	<0.025		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 03:38	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J	0.50	0.010	mg/L		09/30/13 07:45	10/04/13 03:48	1
Beryllium	0.0062		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 03:48	1
Boron	0.21		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 03:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 03:48	1
Chromium	0.13		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 03:48	1
Cobalt	0.039		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 03:48	1
Iron	130		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 03:48	1
Lead	0.073		0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 03:48	1
Manganese	0.54		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 03:48	1
Nickel	0.14		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 03:48	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 03:48	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 03:48	1
Zinc	0.43	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 03:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-1

Client Sample ID: 846D-19-B05

Lab Sample ID: 500-63234-1

Date Collected: 09/18/13 13:50

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/08/13 08:00	10/08/13 17:43	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 10:45	1
Thallium	0.0054		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 10:45	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J	0.00020	0.000020	mg/L		09/30/13 16:00	10/01/13 12:07	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.017	0.0079	mg/Kg	☼	09/19/13 13:45	09/20/13 09:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.16		0.200	0.200	SU			10/02/13 14:07	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F	Duplicate RPD exceeds the control limit
F	MS/MSD Recovery and/or RPD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey 500-63234 COC email: cgrey@andrews-en.	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7 Wier & Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 1.5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63234</u> Sample Temp.: <u>3, 2, 3, 5, 3, 4</u> Matrix Key:								
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.											
ANALYSES											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		0 - 3'
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		
X	X			X		X	X	X	X		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63578-5
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/17/2013 8:47:59 AM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B01

Lab Sample ID: 500-63578-32

Date Collected: 09/24/13 08:20

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 86.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012		0.0043	0.0019	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	09/24/13 08:20	10/02/13 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/24/13 08:20	10/02/13 13:29	1
Dibromofluoromethane	102		75 - 120	09/24/13 08:20	10/02/13 13:29	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/24/13 08:20	10/02/13 13:29	1
Toluene-d8 (Surr)	93		75 - 122	09/24/13 08:20	10/02/13 13:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B01

Lab Sample ID: 500-63578-32

Date Collected: 09/24/13 08:20

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
2,4-Dinitrophenol	<0.74	*	0.74	0.19	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
2,4-Dinitrotoluene	<0.19		0.19	0.056	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Diethyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
4,6-Dinitro-2-methylphenol	<0.37	*	0.37	0.089	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Di-n-butyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B01

Lab Sample ID: 500-63578-32

Date Collected: 09/24/13 08:20

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Benzo[b]fluoranthene	0.0089	J	0.037	0.0072	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Benzo[a]pyrene	0.0097	J	0.037	0.0067	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	10/02/13 18:17	10/03/13 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		25 - 110				10/02/13 18:17	10/03/13 17:30	1
Phenol-d5	58		31 - 110				10/02/13 18:17	10/03/13 17:30	1
Nitrobenzene-d5	67		25 - 115				10/02/13 18:17	10/03/13 17:30	1
2-Fluorobiphenyl	56		25 - 119				10/02/13 18:17	10/03/13 17:30	1
2,4,6-Tribromophenol	71		35 - 137				10/02/13 18:17	10/03/13 17:30	1
Terphenyl-d14	74		36 - 134				10/02/13 18:17	10/03/13 17:30	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
Endosulfan I	<0.0019		0.0019	0.00082	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	10/03/13 07:14	10/05/13 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		56 - 128				10/03/13 07:14	10/05/13 17:34	1
Tetrachloro-m-xylene	55		45 - 112				10/03/13 07:14	10/05/13 17:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B01

Lab Sample ID: 500-63578-32

Date Collected: 09/24/13 08:20

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 86.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8300		11	1.0	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Arsenic	7.6		0.55	0.11	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Barium	42		0.55	0.059	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Beryllium	0.50		0.22	0.019	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Boron	6.7		2.8	0.12	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Cadmium	0.79		0.11	0.014	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Calcium	43000		11	3.0	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Chromium	13		0.55	0.064	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Cobalt	8.8		0.28	0.020	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Copper	24		0.55	0.049	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Iron	17000		11	4.5	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Lead	11		0.28	0.082	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Magnesium	22000		5.5	1.1	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Manganese	330		0.55	0.030	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Nickel	23		0.55	0.054	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Potassium	1700		28	1.7	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Sodium	210		55	7.4	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Thallium	0.36	J	0.55	0.23	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Vanadium	16		0.28	0.041	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1
Zinc	45		1.1	0.22	mg/Kg	☼	09/25/13 10:15	10/11/13 01:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.1		0.10	0.050	mg/L		10/15/13 09:00	10/16/13 03:31	1
Iron	<0.20		0.20	0.20	mg/L		10/15/13 09:00	10/16/13 03:31	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/16/13 03:31	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.94		0.50	0.010	mg/L		10/09/13 09:30	10/09/13 19:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 19:39	1
Boron	2.3		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 19:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 19:39	1
Chromium	0.025		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 19:39	1
Cobalt	0.0060	J	0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 19:39	1
Iron	19		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 19:39	1
Lead	0.011		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 19:39	1
Manganese	0.080		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 19:39	1
Nickel	0.020	J	0.025	0.010	mg/L		10/09/13 09:30	10/09/13 19:39	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 19:39	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 19:39	1
Zinc	0.87		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 19:39	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 17:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 17:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B01

Lab Sample ID: 500-63578-32

Date Collected: 09/24/13 08:20

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000051	J	0.00020	0.000020	mg/L	—	10/09/13 16:00	10/10/13 11:59	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.017	0.0079	mg/Kg	☼	10/01/13 15:30	10/02/13 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		0.200	0.200	SU	—		10/10/13 15:40	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B01 DUP

Lab Sample ID: 500-63578-33

Date Collected: 09/24/13 08:25

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.010		0.0041	0.0018	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Benzene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Bromomethane	<0.0041		0.0041	0.0013	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Carbon tetrachloride	<0.0041		0.0041	0.00076	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Chloroform	<0.0041		0.0041	0.00048	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Chloromethane	<0.0041		0.0041	0.00087	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00059	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
1,1-Dichloroethane	<0.0041		0.0041	0.00066	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00067	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
1,2-Dichloropropane	<0.0041		0.0041	0.00063	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Ethylbenzene	<0.0041		0.0041	0.00084	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00069	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00057	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Vinyl chloride	<0.0041		0.0041	0.00087	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	09/24/13 08:25	10/01/13 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/24/13 08:25	10/01/13 22:06	1
Dibromofluoromethane	99		75 - 120	09/24/13 08:25	10/01/13 22:06	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/24/13 08:25	10/01/13 22:06	1
Toluene-d8 (Surr)	96		75 - 122	09/24/13 08:25	10/01/13 22:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B01 DUP

Lab Sample ID: 500-63578-33

Date Collected: 09/24/13 08:25

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
2,4-Dinitrophenol	<0.76	*	0.76	0.19	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
4,6-Dinitro-2-methylphenol	<0.38	*	0.38	0.092	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B01 DUP

Lab Sample ID: 500-63578-33

Date Collected: 09/24/13 08:25

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	10/02/13 18:17	10/03/13 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	80		25 - 110	10/02/13 18:17	10/03/13 17:54	1
Phenol-d5	70		31 - 110	10/02/13 18:17	10/03/13 17:54	1
Nitrobenzene-d5	82		25 - 115	10/02/13 18:17	10/03/13 17:54	1
2-Fluorobiphenyl	68		25 - 119	10/02/13 18:17	10/03/13 17:54	1
2,4,6-Tribromophenol	59		35 - 137	10/02/13 18:17	10/03/13 17:54	1
Terphenyl-d14	90		36 - 134	10/02/13 18:17	10/03/13 17:54	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
alpha-Chlordane	<0.0019		0.0019	0.00095	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
Endosulfan I	<0.0019		0.0019	0.00082	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	10/03/13 07:14	10/05/13 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		56 - 128	10/03/13 07:14	10/05/13 17:54	1
Tetrachloro-m-xylene	50		45 - 112	10/03/13 07:14	10/05/13 17:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B01 DUP

Lab Sample ID: 500-63578-33

Date Collected: 09/24/13 08:25

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 86.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7800		11	1.0	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Arsenic	9.7		0.57	0.11	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Barium	39		0.57	0.061	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Beryllium	0.51		0.23	0.020	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Boron	6.9		2.8	0.12	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Cadmium	0.85		0.11	0.014	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Calcium	42000		11	3.1	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Chromium	13		0.57	0.066	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Cobalt	9.2		0.28	0.020	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Copper	25		0.57	0.051	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Iron	18000		11	4.7	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Lead	11		0.28	0.085	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Magnesium	22000		5.7	1.2	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Manganese	430		0.57	0.031	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Nickel	25		0.57	0.056	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Potassium	1700		28	1.7	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Sodium	200		57	7.6	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Thallium	0.48	J	0.57	0.24	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Vanadium	17		0.28	0.042	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1
Zinc	47		1.1	0.23	mg/Kg	☼	09/25/13 10:15	10/11/13 01:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/15/13 09:00	10/16/13 03:37	1
Boron	0.98		0.10	0.050	mg/L		10/15/13 09:00	10/16/13 03:37	1
Iron	0.22		0.20	0.20	mg/L		10/15/13 09:00	10/16/13 03:37	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/15/13 09:00	10/16/13 03:37	1
Manganese	0.36		0.025	0.010	mg/L		10/15/13 09:00	10/16/13 03:37	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2		0.50	0.010	mg/L		10/09/13 09:30	10/09/13 19:45	1
Beryllium	0.0047		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 19:45	1
Boron	2.0		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 19:45	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 19:45	1
Chromium	0.094		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 19:45	1
Cobalt	0.026		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 19:45	1
Iron	97		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 19:45	1
Lead	0.042		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 19:45	1
Manganese	0.34		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 19:45	1
Nickel	0.092		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 19:45	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 19:45	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 19:45	1
Zinc	0.98		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 19:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B01 DUP

Lab Sample ID: 500-63578-33

Date Collected: 09/24/13 08:25

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/15/13 09:00	10/15/13 17:41	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 18:02	1
Thallium	0.0028		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 18:02	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022		0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 12:01	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0087	mg/Kg	☼	10/01/13 15:30	10/02/13 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU			10/10/13 15:43	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B02

Lab Sample ID: 500-63578-34

Date Collected: 09/24/13 08:35

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 88.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0020	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	09/24/13 08:35	10/01/13 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/24/13 08:35	10/01/13 22:28	1
Dibromofluoromethane	103		75 - 120	09/24/13 08:35	10/01/13 22:28	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	09/24/13 08:35	10/01/13 22:28	1
Toluene-d8 (Surr)	92		75 - 122	09/24/13 08:35	10/01/13 22:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B02

Lab Sample ID: 500-63578-34

Date Collected: 09/24/13 08:35

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
2,4-Dinitrophenol	<0.75	*	0.75	0.19	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
4,6-Dinitro-2-methylphenol	<0.37	*	0.37	0.090	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B02

Lab Sample ID: 500-63578-34

Date Collected: 09/24/13 08:35

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	10/02/13 18:17	10/03/13 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		25 - 110	10/02/13 18:17	10/03/13 18:18	1
Phenol-d5	58		31 - 110	10/02/13 18:17	10/03/13 18:18	1
Nitrobenzene-d5	67		25 - 115	10/02/13 18:17	10/03/13 18:18	1
2-Fluorobiphenyl	59		25 - 119	10/02/13 18:17	10/03/13 18:18	1
2,4,6-Tribromophenol	70		35 - 137	10/02/13 18:17	10/03/13 18:18	1
Terphenyl-d14	86		36 - 134	10/02/13 18:17	10/03/13 18:18	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
beta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
delta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
Endosulfan I	<0.0019		0.0019	0.00081	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
Methoxychlor	<0.0092		0.0092	0.00036	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1
Toxaphene	<0.019		0.019	0.0078	mg/Kg	☼	10/03/13 07:14	10/05/13 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		56 - 128	10/03/13 07:14	10/05/13 18:13	1
Tetrachloro-m-xylene	55		45 - 112	10/03/13 07:14	10/05/13 18:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B02

Lab Sample ID: 500-63578-34

Date Collected: 09/24/13 08:35

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 88.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8400		11	0.98	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Arsenic	8.8		0.53	0.11	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Barium	46		0.53	0.057	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Beryllium	0.52		0.21	0.019	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Boron	5.9		2.7	0.11	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Cadmium	0.81		0.11	0.014	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Calcium	34000		11	2.9	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Chromium	13		0.53	0.062	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Cobalt	9.0		0.27	0.019	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Copper	24		0.53	0.047	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Iron	18000		11	4.4	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Lead	12		0.27	0.079	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Magnesium	19000		5.3	1.1	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Manganese	330		0.53	0.029	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Nickel	22		0.53	0.052	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Potassium	1500		27	1.6	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Sodium	110		53	7.1	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Thallium	0.35	J	0.53	0.22	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Vanadium	16		0.27	0.039	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1
Zinc	43		1.1	0.21	mg/Kg	☼	09/25/13 10:15	10/11/13 01:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.0		0.10	0.050	mg/L		10/15/13 09:00	10/16/13 03:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		10/09/13 09:30	10/09/13 19:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 19:52	1
Boron	2.8		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 19:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 19:52	1
Chromium	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 19:52	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 19:52	1
Iron	2.2		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 19:52	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 19:52	1
Manganese	0.017	J	0.025	0.010	mg/L		10/09/13 09:30	10/09/13 19:52	1
Nickel	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 19:52	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 19:52	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 19:52	1
Zinc	1.0		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 19:52	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 18:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 18:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B02

Lab Sample ID: 500-63578-34

Date Collected: 09/24/13 08:35

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 12:03	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0083	mg/Kg	✱	10/01/13 15:30	10/02/13 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.87		0.200	0.200	SU			10/10/13 15:47	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B03

Lab Sample ID: 500-63578-35

Date Collected: 09/24/13 08:45

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0022	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Vinyl acetate	<0.0050		0.0050	0.00079	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	09/24/13 08:45	10/01/13 22:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122	09/24/13 08:45	10/01/13 22:51	1
Dibromofluoromethane	104		75 - 120	09/24/13 08:45	10/01/13 22:51	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	09/24/13 08:45	10/01/13 22:51	1
Toluene-d8 (Surr)	95		75 - 122	09/24/13 08:45	10/01/13 22:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B03

Lab Sample ID: 500-63578-35

Date Collected: 09/24/13 08:45

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
2-Chlorophenol	<0.18		0.18	0.053	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
2,4-Dinitrophenol	<0.74 *		0.74	0.19	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Acenaphthylene	<0.037		0.037	0.0084	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
4-Nitroaniline	<0.37		0.37	0.075	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
4,6-Dinitro-2-methylphenol	<0.37 *		0.37	0.089	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Anthracene	<0.037		0.037	0.0086	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B03

Lab Sample ID: 500-63578-35

Date Collected: 09/24/13 08:45

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Di-n-octyl phthalate	<0.18		0.18	0.075	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Benzo[b]fluoranthene	<0.037		0.037	0.0071	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1
3 & 4 Methylphenol	<0.18		0.18	0.070	mg/Kg	☼	10/02/13 18:17	10/03/13 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		25 - 110	10/02/13 18:17	10/03/13 18:42	1
Phenol-d5	69		31 - 110	10/02/13 18:17	10/03/13 18:42	1
Nitrobenzene-d5	76		25 - 115	10/02/13 18:17	10/03/13 18:42	1
2-Fluorobiphenyl	66		25 - 119	10/02/13 18:17	10/03/13 18:42	1
2,4,6-Tribromophenol	68		35 - 137	10/02/13 18:17	10/03/13 18:42	1
Terphenyl-d14	83		36 - 134	10/02/13 18:17	10/03/13 18:42	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
Endosulfan I	<0.0019		0.0019	0.00082	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	10/03/13 07:14	10/05/13 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		56 - 128	10/03/13 07:14	10/05/13 18:33	1
Tetrachloro-m-xylene	50		45 - 112	10/03/13 07:14	10/05/13 18:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B03

Lab Sample ID: 500-63578-35

Date Collected: 09/24/13 08:45

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8000		11	1.0	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Arsenic	8.8		0.57	0.11	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Barium	52		0.57	0.061	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Beryllium	0.50		0.23	0.020	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Boron	5.1		2.8	0.12	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Cadmium	0.82		0.11	0.014	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Calcium	37000		11	3.1	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Chromium	12		0.57	0.066	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Cobalt	9.7		0.28	0.020	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Copper	24		0.57	0.050	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Iron	17000		11	4.6	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Lead	14		0.28	0.084	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Magnesium	18000		5.7	1.2	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Manganese	400		0.57	0.031	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Nickel	22		0.57	0.055	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Potassium	1400		28	1.7	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Sodium	290		57	7.6	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Thallium	0.33	J	0.57	0.24	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Vanadium	17		0.28	0.042	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1
Zinc	48		1.1	0.23	mg/Kg	☼	09/25/13 10:15	10/11/13 01:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.1		0.10	0.050	mg/L		10/15/13 09:00	10/16/13 03:49	1
Iron	0.20		0.20	0.20	mg/L		10/15/13 09:00	10/16/13 03:49	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		10/09/13 09:30	10/09/13 19:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 19:58	1
Boron	3.1		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 19:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 19:58	1
Chromium	0.014	J	0.025	0.010	mg/L		10/09/13 09:30	10/09/13 19:58	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 19:58	1
Iron	7.1		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 19:58	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 19:58	1
Manganese	0.045		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 19:58	1
Nickel	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 19:58	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 19:58	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 19:58	1
Zinc	1.1		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 19:58	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 18:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 18:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B03

Lab Sample ID: 500-63578-35

Date Collected: 09/24/13 08:45

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000023	J	0.00020	0.000020	mg/L	—	10/09/13 16:00	10/10/13 12:05	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0087	mg/Kg	☼	10/01/13 15:30	10/02/13 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.33		0.200	0.200	SU	—		10/10/13 15:50	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B04

Lab Sample ID: 500-63578-36

Date Collected: 09/24/13 08:50

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0063		0.0042	0.0018	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Bromodichloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Bromoform	<0.0042		0.0042	0.00098	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Carbon tetrachloride	<0.0042		0.0042	0.00077	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Chloroform	<0.0042		0.0042	0.00049	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Chloromethane	<0.0042		0.0042	0.00089	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00060	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00056	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Dibromochloromethane	<0.0042		0.0042	0.00074	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
1,1-Dichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00056	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Ethylbenzene	<0.0042		0.0042	0.00086	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00070	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Styrene	<0.0042		0.0042	0.00056	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Tetrachloroethene	<0.0042		0.0042	0.00065	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00076	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00058	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Trichloroethene	<0.0042		0.0042	0.00070	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Vinyl acetate	<0.0042		0.0042	0.00067	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Vinyl chloride	<0.0042		0.0042	0.00089	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1
Xylenes, Total	<0.0085		0.0085	0.00038	mg/Kg	☼	09/24/13 08:50	10/01/13 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/24/13 08:50	10/01/13 23:13	1
Dibromofluoromethane	103		75 - 120	09/24/13 08:50	10/01/13 23:13	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/24/13 08:50	10/01/13 23:13	1
Toluene-d8 (Surr)	94		75 - 122	09/24/13 08:50	10/01/13 23:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B04

Lab Sample ID: 500-63578-36

Date Collected: 09/24/13 08:50

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
2,4-Dinitrophenol	<0.75	*	0.75	0.19	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
4,6-Dinitro-2-methylphenol	<0.37	*	0.37	0.090	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B04

Lab Sample ID: 500-63578-36

Date Collected: 09/24/13 08:50

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	10/02/13 18:17	10/03/13 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		25 - 110	10/02/13 18:17	10/03/13 19:06	1
Phenol-d5	49		31 - 110	10/02/13 18:17	10/03/13 19:06	1
Nitrobenzene-d5	49		25 - 115	10/02/13 18:17	10/03/13 19:06	1
2-Fluorobiphenyl	51		25 - 119	10/02/13 18:17	10/03/13 19:06	1
2,4,6-Tribromophenol	75		35 - 137	10/02/13 18:17	10/03/13 19:06	1
Terphenyl-d14	84		36 - 134	10/02/13 18:17	10/03/13 19:06	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00076	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
alpha-BHC	<0.0019		0.0019	0.00046	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
alpha-Chlordane	<0.0019		0.0019	0.00092	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
beta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
4,4'-DDD	<0.0019		0.0019	0.00036	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
4,4'-DDE	<0.0019		0.0019	0.00030	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
4,4'-DDT	<0.0019		0.0019	0.00096	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
delta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
Endosulfan I	<0.0019		0.0019	0.00080	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
Endosulfan sulfate	<0.0019		0.0019	0.00033	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
Endrin	<0.0019		0.0019	0.00025	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
Endrin ketone	<0.0019		0.0019	0.00041	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
gamma-Chlordane	<0.0019		0.0019	0.00048	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
Heptachlor	<0.0019		0.0019	0.00077	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
Heptachlor epoxide	<0.0019		0.0019	0.00065	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
Methoxychlor	<0.0091		0.0091	0.00035	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1
Toxaphene	<0.018		0.018	0.0077	mg/Kg	☼	10/03/13 07:14	10/05/13 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		56 - 128	10/03/13 07:14	10/05/13 18:52	1
Tetrachloro-m-xylene	48		45 - 112	10/03/13 07:14	10/05/13 18:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B04

Lab Sample ID: 500-63578-36

Date Collected: 09/24/13 08:50

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 87.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7400	B	11	1.0	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/25/13 10:15	10/12/13 05:03	1
Arsenic	8.2		0.56	0.11	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Barium	38		0.56	0.060	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Beryllium	0.39		0.22	0.020	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Boron	4.8		2.8	0.12	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Cadmium	0.21		0.11	0.014	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Calcium	44000	B	11	3.0	mg/Kg	☼	09/25/13 10:15	10/12/13 05:03	1
Chromium	11		0.56	0.065	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Cobalt	9.1		0.28	0.020	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Copper	22	B	0.56	0.050	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Iron	16000	B	11	4.6	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Lead	13		0.28	0.084	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Magnesium	23000	B	5.6	1.2	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Manganese	270	B	0.56	0.031	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Nickel	24		0.56	0.055	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Potassium	1000	B	28	1.7	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Selenium	0.32	J	0.56	0.20	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Sodium	88		56	7.5	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Vanadium	14		0.28	0.042	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1
Zinc	55	B	1.1	0.23	mg/Kg	☼	09/25/13 10:15	10/11/13 10:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.1		0.10	0.050	mg/L		10/15/13 09:00	10/16/13 04:10	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		10/09/13 09:30	10/09/13 20:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 20:04	1
Boron	4.0		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 20:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 20:04	1
Chromium	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 20:04	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 20:04	1
Iron	1.2		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 20:04	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 20:04	1
Manganese	0.015	J	0.025	0.010	mg/L		10/09/13 09:30	10/09/13 20:04	1
Nickel	<0.025		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 20:04	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 20:04	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 20:04	1
Zinc	1.5		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 20:04	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 18:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 18:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Client Sample ID: 846D-19-B04

Lab Sample ID: 500-63578-36

Date Collected: 09/24/13 08:50

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000020	J	0.00020	0.000020	mg/L	—	10/09/13 16:00	10/10/13 12:07	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.017	0.0081	mg/Kg	☼	10/01/13 15:30	10/02/13 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.66		0.200	0.200	SU	—		10/10/13 16:14	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-5

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact
 Andrews Engineering, Inc
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 Lab: Test America - Chicago
 Address: 2417 Bond Street
 University Park, IL 60484
 Phone: 708-534-5200
 Contact: Dick Wright
 email: richard.wright@testamericainc.com

Project Name: US6/IL7 Wilson Cook Co
 Project No.: IDOT 2013-023
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Sampler: AEI

COC No.: of
 Lab Job No.: 500-63578
 Sample Temp: 34.38/3.23/5
 Matrix Key:

W: Water
 S: Soil
 SL: Sludge
 S: Sediment
 L: Leachate
 DW: Drinking Water
 OL: Oil
 O: Other

ANALYSES

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBS	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
1	846D-10-B01-1	9/24/13	11:00	S	X	X					X	X	X	X		0-5'
2	846D-10-B01-DUP		11:05													0-5'
3	846D-10-B01-2		11:10													5-10'
4	846D-10-B02-1		10:45													0-5'
5	846D-10-B02-2		10:50													5-10'
6	846D-10-B03-1		10:35													0-5'
7	846D-10-B03-2		10:40													5-10'
8	846D-10-B04-1		10:20													0-5'
9	846D-10-B04-2		10:25													5-10'
10	846D-10-B05-1		10:10													0-5'
11	846D-10-B05-2		10:15													5-10'
12	846D-10-B06-1		9:55	S	X	X					X	X	X	X		0-5'
Relinquished by: <u>John A. Wright (AEI)</u>					Date/Time											
					9/24/13	4:05	Received by: <u>[Signature]</u>									
Relinquished by: <u>[Signature]</u>					Date/Time											
					9/24/13	11:00	Received by: <u>[Signature]</u>									
Relinquished by: <u>[Signature]</u>					Date/Time											
					9/25/13	06:30	Received by: <u>[Signature]</u>									

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15308 and 15316 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59874 Longitude: -87.99080
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59874 Longitude: -87.99080

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATION 846D-20-B02 WAS SAMPLED ADJACENT TO ISGS SITE NO. 846D-20. SEE FIGURE 5 AND TABLE 3n OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NO.: 500-63499-6

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

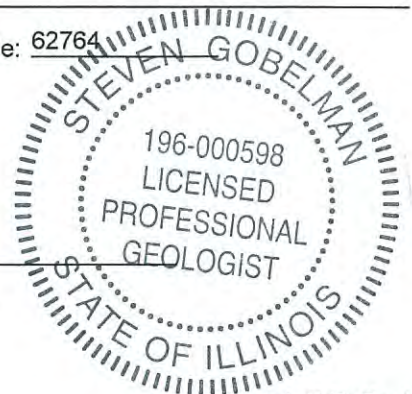
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14

Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-20

Amish Furniture Store and Residence

Sample ID	846D-20-B02								
Sample Depth (ft)	0-7								
Sample Date	9/23/2013								
PID	0								
Sample pH	7.86								
Matrix	Soil								
No Contaminants of Concern Noted.									
		¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non- Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63499-6
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/15/2013 3:51:38 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-6

Client Sample ID: 846D-20-B02

Lab Sample ID: 500-63499-27

Date Collected: 09/23/13 10:15

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0030	J	0.0042	0.0018	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	09/23/13 10:15	09/30/13 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/23/13 10:15	09/30/13 15:13	1
Dibromofluoromethane	102		75 - 120	09/23/13 10:15	09/30/13 15:13	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	09/23/13 10:15	09/30/13 15:13	1
Toluene-d8 (Surr)	97		75 - 122	09/23/13 10:15	09/30/13 15:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-6

Client Sample ID: 846D-20-B02

Lab Sample ID: 500-63499-27

Date Collected: 09/23/13 10:15

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Fluoranthene	0.019	J	0.037	0.015	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Pyrene	0.018	J	0.037	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Benzo[a]anthracene	0.0098	J	0.037	0.0078	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-6

Client Sample ID: 846D-20-B02

Lab Sample ID: 500-63499-27

Date Collected: 09/23/13 10:15

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.037	0.0084	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Benzo[b]fluoranthene	0.018	J	0.037	0.0072	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Benzo[a]pyrene	0.011	J	0.037	0.0068	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	10/02/13 07:25	10/07/13 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		25 - 110				10/02/13 07:25	10/07/13 22:55	1
Phenol-d5	68		31 - 110				10/02/13 07:25	10/07/13 22:55	1
Nitrobenzene-d5	63		25 - 115				10/02/13 07:25	10/07/13 22:55	1
2-Fluorobiphenyl	62		25 - 119				10/02/13 07:25	10/07/13 22:55	1
2,4,6-Tribromophenol	78		35 - 137				10/02/13 07:25	10/07/13 22:55	1
Terphenyl-d14	108		36 - 134				10/02/13 07:25	10/07/13 22:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9900		11	1.0	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Arsenic	7.7		0.55	0.11	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Barium	44		0.55	0.059	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Beryllium	0.61		0.22	0.020	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Boron	8.6		2.8	0.12	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Cadmium	0.92		0.11	0.014	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Calcium	52000		11	3.0	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Chromium	16		0.55	0.064	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Cobalt	10		0.28	0.020	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Copper	24		0.55	0.049	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Iron	19000		11	4.6	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Lead	11		0.28	0.083	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Magnesium	24000		5.5	1.1	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Manganese	350		0.55	0.030	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Nickel	25		0.55	0.054	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Potassium	2200		28	1.7	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Sodium	170		55	7.4	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Thallium	0.23	J	0.55	0.23	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Vanadium	19		0.28	0.041	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1
Zinc	45		1.1	0.22	mg/Kg	☼	09/24/13 16:15	10/10/13 13:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/14/13 09:45	10/14/13 21:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-6

Client Sample ID: 846D-20-B02

Lab Sample ID: 500-63499-27

Date Collected: 09/23/13 10:15

Matrix: Solid

Date Received: 09/24/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		10/07/13 09:00	10/08/13 22:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/07/13 09:00	10/08/13 22:55	1
Boron	1.6		0.10	0.050	mg/L		10/11/13 09:30	10/12/13 12:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/07/13 09:00	10/08/13 22:55	1
Chromium	0.013	J	0.025	0.010	mg/L		10/07/13 09:00	10/08/13 22:55	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/08/13 22:55	1
Iron	9.1		0.20	0.20	mg/L		10/07/13 09:00	10/08/13 22:55	1
Lead	0.0060	J	0.0075	0.0050	mg/L		10/07/13 09:00	10/08/13 22:55	1
Manganese	0.10		0.025	0.010	mg/L		10/07/13 09:00	10/08/13 22:55	1
Nickel	0.010	J	0.025	0.010	mg/L		10/07/13 09:00	10/08/13 22:55	1
Selenium	<0.050		0.050	0.010	mg/L		10/07/13 09:00	10/08/13 22:55	1
Silver	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/08/13 22:55	1
Zinc	0.76		0.10	0.020	mg/L		10/07/13 09:00	10/08/13 22:55	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/07/13 09:00	10/08/13 11:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/07/13 09:00	10/08/13 11:47	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/08/13 15:30	10/09/13 12:03	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0085	mg/Kg	✱	09/25/13 15:45	09/26/13 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86		0.200	0.200	SU			10/07/13 17:16	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-6

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15110 to 15306 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59873 Longitude: -87.98910
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59873 Longitude: -87.98910

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-21-B01 THROUGH -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-21. SEE FIGURE 5 AND TABLE 3o OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-63499-7 AND 500-63234-2

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman
Printed Name:


Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-21

Farmland and Vacant Area

Sample ID	846D-21-B01	846D-21-B02	846D-21-B03	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-7	0-7	0-7						
Sample Date	9/23/2013	9/23/2013	9/18/2013						
PID	0	0	0						
Sample pH	8.11	8.26	8.56						
Matrix	Soil	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63499-7
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/15/2013 3:52:13 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-7

Client Sample ID: 846D-21-B01

Lab Sample ID: 500-63499-28

Date Collected: 09/23/13 10:05

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 82.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011		0.0045	0.0020	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00073	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	09/23/13 10:05	09/30/13 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/23/13 10:05	09/30/13 15:35	1
Dibromofluoromethane	101		75 - 120	09/23/13 10:05	09/30/13 15:35	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/23/13 10:05	09/30/13 15:35	1
Toluene-d8 (Surr)	95		75 - 122	09/23/13 10:05	09/30/13 15:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-7

Client Sample ID: 846D-21-B01

Lab Sample ID: 500-63499-28

Date Collected: 09/23/13 10:05

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 82.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Fluoranthene	0.037	J	0.039	0.016	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Pyrene	0.046		0.039	0.014	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Benzo[a]anthracene	0.022	J	0.039	0.0083	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-7

Client Sample ID: 846D-21-B01

Lab Sample ID: 500-63499-28

Date Collected: 09/23/13 10:05

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 82.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.043		0.039	0.0089	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Benzo[b]fluoranthene	0.063		0.039	0.0077	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Benzo[k]fluoranthene	0.022 J		0.039	0.0094	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Benzo[a]pyrene	0.037 J		0.039	0.0072	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Indeno[1,2,3-cd]pyrene	0.024 J		0.039	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
Benzo[g,h,i]perylene	0.038 J		0.039	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	10/02/13 07:25	10/07/13 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		25 - 110	10/02/13 07:25	10/07/13 23:14	1
Phenol-d5	65		31 - 110	10/02/13 07:25	10/07/13 23:14	1
Nitrobenzene-d5	54		25 - 115	10/02/13 07:25	10/07/13 23:14	1
2-Fluorobiphenyl	63		25 - 119	10/02/13 07:25	10/07/13 23:14	1
2,4,6-Tribromophenol	77		35 - 137	10/02/13 07:25	10/07/13 23:14	1
Terphenyl-d14	122		36 - 134	10/02/13 07:25	10/07/13 23:14	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0041		0.0041	0.0017	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
alpha-BHC	<0.0041		0.0041	0.0010	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
alpha-Chlordane	<0.0041		0.0041	0.0020	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
beta-BHC	<0.0041		0.0041	0.0012	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
4,4'-DDD	<0.0041		0.0041	0.00080	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
4,4'-DDE	<0.0041		0.0041	0.00066	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
4,4'-DDT	<0.0041		0.0041	0.0021	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
delta-BHC	<0.0041		0.0041	0.0013	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
Dieldrin	<0.0041		0.0041	0.00055	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
Endosulfan I	<0.0041		0.0041	0.0018	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
Endosulfan II	<0.0041		0.0041	0.00065	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
Endosulfan sulfate	<0.0041		0.0041	0.00073	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
Endrin	<0.0041		0.0041	0.00055	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
Endrin aldehyde	<0.0041		0.0041	0.00067	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
Endrin ketone	<0.0041		0.0041	0.00091	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
gamma-BHC (Lindane)	<0.0041		0.0041	0.00087	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
gamma-Chlordane	<0.0041		0.0041	0.0010	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
Heptachlor	<0.0041		0.0041	0.0017	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
Heptachlor epoxide	<0.0041		0.0041	0.0014	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
Methoxychlor	<0.020		0.020	0.00078	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2
Toxaphene	<0.040		0.040	0.017	mg/Kg	☼	10/02/13 18:42	10/04/13 13:55	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		56 - 128	10/02/13 18:42	10/04/13 13:55	2
Tetrachloro-m-xylene	55		45 - 112	10/02/13 18:42	10/04/13 13:55	2

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-7

Client Sample ID: 846D-21-B01

Lab Sample ID: 500-63499-28

Date Collected: 09/23/13 10:05

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 82.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8700		12	1.1	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Arsenic	8.0		0.58	0.12	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Barium	84		0.58	0.062	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Beryllium	0.57		0.23	0.021	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Boron	2.6	J	2.9	0.12	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Cadmium	0.54		0.12	0.015	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Calcium	9200		12	3.2	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Chromium	12		0.58	0.068	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Cobalt	13		0.29	0.021	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Copper	15		0.58	0.052	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Iron	17000		12	4.8	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Lead	20		0.29	0.087	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Magnesium	6000		5.8	1.2	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Manganese	1200		5.8	0.32	mg/Kg	☼	09/24/13 16:15	10/11/13 12:53	10
Nickel	15		0.58	0.057	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Potassium	900		29	1.8	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Selenium	0.55	J	0.58	0.21	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Sodium	1200		58	7.8	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Thallium	<0.58		0.58	0.25	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Vanadium	21		0.29	0.043	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1
Zinc	43		1.2	0.24	mg/Kg	☼	09/24/13 16:15	10/10/13 13:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		10/07/13 09:00	10/08/13 23:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/07/13 09:00	10/08/13 23:01	1
Boron	1.7		0.10	0.050	mg/L		10/11/13 09:30	10/12/13 12:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/07/13 09:00	10/08/13 23:01	1
Chromium	<0.025		0.025	0.010	mg/L		10/07/13 09:00	10/08/13 23:01	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/08/13 23:01	1
Iron	0.63		0.20	0.20	mg/L		10/07/13 09:00	10/08/13 23:01	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/07/13 09:00	10/08/13 23:01	1
Manganese	<0.025		0.025	0.010	mg/L		10/07/13 09:00	10/08/13 23:01	1
Nickel	<0.025		0.025	0.010	mg/L		10/07/13 09:00	10/08/13 23:01	1
Selenium	<0.050		0.050	0.010	mg/L		10/07/13 09:00	10/08/13 23:01	1
Silver	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/08/13 23:01	1
Zinc	0.83		0.10	0.020	mg/L		10/07/13 09:00	10/08/13 23:01	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/07/13 09:00	10/08/13 11:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/07/13 09:00	10/08/13 11:50	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/08/13 15:30	10/09/13 12:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-7

Client Sample ID: 846D-21-B01

Lab Sample ID: 500-63499-28

Date Collected: 09/23/13 10:05

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 82.5

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.019	0.0089	mg/Kg	☼	09/25/13 15:45	09/26/13 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.11		0.200	0.200	SU			10/07/13 17:21	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-7

Client Sample ID: 846D-21-B02

Lab Sample ID: 500-63499-29

Date Collected: 09/23/13 09:55

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0018	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Benzene	<0.0043		0.0043	0.00058	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Bromoform	<0.0043		0.0043	0.00098	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Carbon tetrachloride	<0.0043		0.0043	0.00077	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Chloromethane	<0.0043		0.0043	0.00089	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Dibromochloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
1,1-Dichloroethane	<0.0043		0.0043	0.00067	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Ethylbenzene	<0.0043		0.0043	0.00086	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Methylene Chloride	<0.0043		0.0043	0.0011	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00070	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00086	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Tetrachloroethene	<0.0043		0.0043	0.00065	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00076	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Trichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Vinyl chloride	<0.0043		0.0043	0.00089	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1
Xylenes, Total	<0.0085		0.0085	0.00039	mg/Kg	☼	09/23/13 09:55	09/30/13 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/23/13 09:55	09/30/13 15:58	1
Dibromofluoromethane	97		75 - 120	09/23/13 09:55	09/30/13 15:58	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	09/23/13 09:55	09/30/13 15:58	1
Toluene-d8 (Surr)	95		75 - 122	09/23/13 09:55	09/30/13 15:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-7

Client Sample ID: 846D-21-B02

Lab Sample ID: 500-63499-29

Date Collected: 09/23/13 09:55

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-7

Client Sample ID: 846D-21-B02

Lab Sample ID: 500-63499-29

Date Collected: 09/23/13 09:55

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	10/02/13 07:25	10/07/13 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		25 - 110	10/02/13 07:25	10/07/13 23:34	1
Phenol-d5	62		31 - 110	10/02/13 07:25	10/07/13 23:34	1
Nitrobenzene-d5	56		25 - 115	10/02/13 07:25	10/07/13 23:34	1
2-Fluorobiphenyl	58		25 - 119	10/02/13 07:25	10/07/13 23:34	1
2,4,6-Tribromophenol	68		35 - 137	10/02/13 07:25	10/07/13 23:34	1
Terphenyl-d14	106		36 - 134	10/02/13 07:25	10/07/13 23:34	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
beta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
delta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
Endosulfan I	<0.0019		0.0019	0.00081	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
Methoxychlor	<0.0092		0.0092	0.00036	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1
Toxaphene	<0.019		0.019	0.0078	mg/Kg	☼	10/02/13 18:42	10/04/13 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		56 - 128	10/02/13 18:42	10/04/13 14:14	1
Tetrachloro-m-xylene	44	X	45 - 112	10/02/13 18:42	10/04/13 14:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-7

Client Sample ID: 846D-21-B02

Lab Sample ID: 500-63499-29

Date Collected: 09/23/13 09:55

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 89.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7700		10	0.95	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Antimony	<1.0		1.0	0.42	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Arsenic	10		0.52	0.10	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Barium	41		0.52	0.055	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Beryllium	0.46		0.21	0.018	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Boron	5.6		2.6	0.11	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Cadmium	0.90		0.10	0.013	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Calcium	45000		10	2.8	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Chromium	11		0.52	0.060	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Cobalt	8.3		0.26	0.018	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Copper	28		0.52	0.046	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Iron	19000		10	4.2	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Lead	13		0.26	0.077	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Magnesium	28000		5.2	1.1	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Manganese	370		0.52	0.028	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Nickel	21		0.52	0.051	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Potassium	1200		26	1.6	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Selenium	<0.52		0.52	0.18	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Sodium	180		52	6.9	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Thallium	0.26	J	0.52	0.22	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Vanadium	15		0.26	0.038	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1
Zinc	43		1.0	0.21	mg/Kg	☼	09/24/13 16:15	10/10/13 14:00	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		10/07/13 09:00	10/08/13 23:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/07/13 09:00	10/08/13 23:07	1
Boron	1.5		0.10	0.050	mg/L		10/11/13 09:30	10/12/13 12:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/07/13 09:00	10/08/13 23:07	1
Chromium	<0.025		0.025	0.010	mg/L		10/07/13 09:00	10/08/13 23:07	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/08/13 23:07	1
Iron	2.6		0.20	0.20	mg/L		10/07/13 09:00	10/08/13 23:07	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/07/13 09:00	10/08/13 23:07	1
Manganese	0.097		0.025	0.010	mg/L		10/07/13 09:00	10/08/13 23:07	1
Nickel	<0.025		0.025	0.010	mg/L		10/07/13 09:00	10/08/13 23:07	1
Selenium	<0.050		0.050	0.010	mg/L		10/07/13 09:00	10/08/13 23:07	1
Silver	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/08/13 23:07	1
Zinc	0.81		0.10	0.020	mg/L		10/07/13 09:00	10/08/13 23:07	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/07/13 09:00	10/08/13 11:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/07/13 09:00	10/08/13 11:54	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/08/13 15:30	10/09/13 12:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-7

Client Sample ID: 846D-21-B02

Lab Sample ID: 500-63499-29

Date Collected: 09/23/13 09:55

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 89.4

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.018	0.0085	mg/Kg	☼	09/25/13 15:45	09/26/13 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.26		0.200	0.200	SU			10/07/13 17:25	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-7

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Name: US6/IL27 Will + Cook Co. Project No.: IDOT2013-02J TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: AEZ		COC No.: 1 of 1 Lab Job No.: 500-63499 Sample Temp: 3, 2, 3, 5, 3, 6 Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES				
Lab ID	Sample ID	Sample Date	Sample Time	Matrix		
28	8460-21-601	9/23/13	10:05	S	VOCs X SVOCs X BTEX & MTBE PNAs Pesticides X PCBs * Total Metals X SPLP/** TCLP Metals X pH X % Solids X Waste Characterization	
29	8460-21-602	9/23/13	9:55	S	VOCs X SVOCs X BTEX & MTBE PNAs Pesticides X PCBs * Total Metals X SPLP/** TCLP Metals X pH X % Solids X Waste Characterization	
					Comments 0-7' 0-7'	
Relinquished by: Kevin A. [Signature]		Date/Time 9/23/13 3:20	Received by: [Signature]			
Relinquished by: [Signature]		Date/Time 9/23/13 16:07	Received by: [Signature]			
Relinquished by: [Signature]		Date/Time	Received by:			

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63234-2
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/10/2013 2:34:58 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-2

Client Sample ID: 846D-21-B03

Lab Sample ID: 500-63234-2

Date Collected: 09/18/13 14:00

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 88.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0053		0.0053	0.0023	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Benzene	<0.0053		0.0053	0.00073	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Bromodichloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Carbon disulfide	<0.0053		0.0053	0.00080	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Carbon tetrachloride	<0.0053		0.0053	0.00097	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Chloroethane	<0.0053		0.0053	0.0015	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00076	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00070	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Dibromochloromethane	<0.0053		0.0053	0.00093	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
1,1-Dichloroethane	<0.0053		0.0053	0.00085	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
1,1-Dichloroethene	<0.0053		0.0053	0.00086	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
1,2-Dichloropropane	<0.0053		0.0053	0.00081	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00070	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00088	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Styrene	<0.0053		0.0053	0.00070	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Tetrachloroethene	<0.0053		0.0053	0.00082	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Toluene	<0.0053		0.0053	0.00075	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00074	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00096	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00080	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00073	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Trichloroethene	<0.0053		0.0053	0.00088	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Vinyl acetate	<0.0053		0.0053	0.00084	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	09/18/13 14:00	09/20/13 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/18/13 14:00	09/20/13 14:08	1
Dibromofluoromethane	97		75 - 120	09/18/13 14:00	09/20/13 14:08	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	09/18/13 14:00	09/20/13 14:08	1
Toluene-d8 (Surr)	96		75 - 122	09/18/13 14:00	09/20/13 14:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-2

Client Sample ID: 846D-21-B03

Lab Sample ID: 500-63234-2

Date Collected: 09/18/13 14:00

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-2

Client Sample ID: 846D-21-B03

Lab Sample ID: 500-63234-2

Date Collected: 09/18/13 14:00

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/20/13 07:23	10/04/13 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		25 - 110	09/20/13 07:23	10/04/13 13:12	1
Phenol-d5	48		31 - 110	09/20/13 07:23	10/04/13 13:12	1
Nitrobenzene-d5	53		25 - 115	09/20/13 07:23	10/04/13 13:12	1
2-Fluorobiphenyl	67		25 - 119	09/20/13 07:23	10/04/13 13:12	1
2,4,6-Tribromophenol	77		35 - 137	09/20/13 07:23	10/04/13 13:12	1
Terphenyl-d14	94		36 - 134	09/20/13 07:23	10/04/13 13:12	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00076	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
alpha-Chlordane	<0.0019		0.0019	0.00093	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
beta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
4,4'-DDE	<0.0019		0.0019	0.00030	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
4,4'-DDT	<0.0019		0.0019	0.00097	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
delta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
Endosulfan I	<0.0019		0.0019	0.00080	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
Endosulfan sulfate	<0.0019		0.0019	0.00033	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
Endrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
Endrin ketone	<0.0019		0.0019	0.00041	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
gamma-Chlordane	<0.0019		0.0019	0.00048	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
Heptachlor	<0.0019		0.0019	0.00077	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
Heptachlor epoxide	<0.0019		0.0019	0.00065	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
Methoxychlor	<0.0091		0.0091	0.00036	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1
Toxaphene	<0.018		0.018	0.0077	mg/Kg	☼	09/20/13 07:10	09/25/13 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		56 - 128	09/20/13 07:10	09/25/13 11:24	1
Tetrachloro-m-xylene	51		45 - 112	09/20/13 07:10	09/25/13 11:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-2

Client Sample ID: 846D-21-B03

Lab Sample ID: 500-63234-2

Date Collected: 09/18/13 14:00

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 88.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9800	B	11	0.98	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Arsenic	11		0.53	0.11	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Barium	51		0.53	0.057	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Beryllium	0.66		0.21	0.019	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Boron	6.6		2.7	0.11	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Cadmium	0.35		0.11	0.014	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Calcium	46000	B	11	2.9	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Chromium	15		0.53	0.062	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Cobalt	12		0.27	0.019	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Copper	30	B	0.53	0.047	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Iron	22000		11	4.4	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Lead	14	B	0.27	0.079	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Magnesium	24000	B	5.3	1.1	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Manganese	470		0.53	0.029	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Nickel	29	B	0.53	0.052	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Potassium	1500		27	1.6	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Sodium	460		53	7.1	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Thallium	0.70		0.53	0.23	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Vanadium	20	B	0.27	0.039	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1
Zinc	57		1.1	0.22	mg/Kg	☼	09/19/13 08:30	10/06/13 19:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 03:58	1
Lead	0.0059	J	0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 03:58	1
Manganese	0.28		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 03:58	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.98		0.50	0.010	mg/L		09/30/13 07:45	10/04/13 04:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 04:28	1
Boron	1.6		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 04:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 04:28	1
Chromium	0.051		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 04:28	1
Cobalt	0.016	J	0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 04:28	1
Iron	55		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 04:28	1
Lead	0.027		0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 04:28	1
Manganese	0.26		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 04:28	1
Nickel	0.060		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 04:28	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 04:28	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 04:28	1
Zinc	1.1	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 04:28	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 10:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 10:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-2

Client Sample ID: 846D-21-B03

Lab Sample ID: 500-63234-2

Date Collected: 09/18/13 14:00

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000076	J	0.00020	0.000020	mg/L	—	09/30/13 16:00	10/01/13 12:09	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.017	0.0079	mg/Kg	☼	09/19/13 13:45	09/20/13 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU	—		10/02/13 14:11	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: US6 / I17 Willy & Cook Co. Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <i>AE</i>	Administrative COC No: <u>1</u> of <u>1</u> Lab Job No.: 500-63234 Sample Temp: 3.2, 3.5, 3.4 Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other Comments:													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
	846D-21-B01			S	X				X		X	X	X	X		
	846D-21-B02			S	X				X		X	X	X	X		
2	846D-21-B03	9/18	2:00	S	X				X		X	X	X	X		0-7'
Relinquished by: <i>[Signature]</i> Date/Time: 9/18 4:00 Received by: <i>[Signature]</i> Date/Time: 9/18/13 1600																
Relinquished by: <i>[Signature]</i> Date/Time: 9/18/13 1645 Received by: <i>[Signature]</i> Date/Time: 9/19/13 0630																
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____																



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15100 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59888 Longitude: -87.98543
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59888 Longitude: -87.98543

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-22-B02 AND -B03 WERE SAMPLED ADJACENT TO ISGS SITE NO. 846D-22. SEE FIGURE 6 AND TABLE 3p OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NO.: 500-63234-3

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

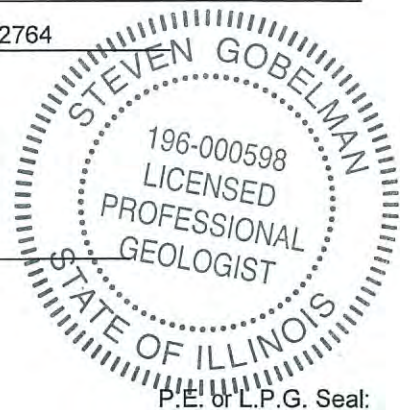
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/15/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-22

Residence

Sample ID	846D-22-B02	846D-22-B03						
Sample Depth (ft)	0-5	0-5						
Sample Date	9/18/2013	9/18/2013						
PID	0	0						
Sample pH	8.7	7.77						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								
			¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non- Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63234-3
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/10/2013 2:35:30 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-3

Client Sample ID: 846D-22-B02

Lab Sample ID: 500-63234-5

Date Collected: 09/18/13 14:25

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	09/18/13 14:25	09/20/13 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/18/13 14:25	09/20/13 15:17	1
Dibromofluoromethane	97		75 - 120	09/18/13 14:25	09/20/13 15:17	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/18/13 14:25	09/20/13 15:17	1
Toluene-d8 (Surr)	95		75 - 122	09/18/13 14:25	09/20/13 15:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-3

Client Sample ID: 846D-22-B02

Lab Sample ID: 500-63234-5

Date Collected: 09/18/13 14:25

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-3

Client Sample ID: 846D-22-B02

Lab Sample ID: 500-63234-5

Date Collected: 09/18/13 14:25

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/20/13 07:23	10/04/13 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		25 - 110	09/20/13 07:23	10/04/13 14:18	1
Phenol-d5	55		31 - 110	09/20/13 07:23	10/04/13 14:18	1
Nitrobenzene-d5	58		25 - 115	09/20/13 07:23	10/04/13 14:18	1
2-Fluorobiphenyl	71		25 - 119	09/20/13 07:23	10/04/13 14:18	1
2,4,6-Tribromophenol	80		35 - 137	09/20/13 07:23	10/04/13 14:18	1
Terphenyl-d14	103		36 - 134	09/20/13 07:23	10/04/13 14:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9800	B	11	1.0	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Arsenic	11		0.57	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Barium	59		0.57	0.060	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Beryllium	0.65		0.23	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Boron	6.9		2.8	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Cadmium	0.99		0.11	0.014	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Calcium	38000	B	11	3.1	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Chromium	15		0.57	0.066	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Cobalt	9.1		0.28	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Copper	30	B	0.57	0.050	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Iron	22000		11	4.6	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Lead	14	B	0.28	0.084	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Magnesium	24000	B	5.7	1.2	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Manganese	340		0.57	0.031	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Nickel	24	B	0.57	0.055	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Potassium	1600		28	1.7	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Sodium	300		57	7.6	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Thallium	0.37	J	0.57	0.24	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Vanadium	20	B	0.28	0.042	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1
Zinc	54		1.1	0.23	mg/Kg	☼	09/19/13 08:30	10/08/13 01:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 04:14	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 04:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-3

Client Sample ID: 846D-22-B02

Lab Sample ID: 500-63234-5

Date Collected: 09/18/13 14:25

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.29		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 04:14	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.010	mg/L		09/30/13 07:45	10/04/13 04:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 04:47	1
Boron	1.8		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 04:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 04:47	1
Chromium	0.036		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 04:47	1
Cobalt	0.011	J	0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 04:47	1
Iron	34		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 04:47	1
Lead	0.019		0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 04:47	1
Manganese	0.15		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 04:47	1
Nickel	0.035		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 04:47	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 04:47	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 04:47	1
Zinc	0.83	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 04:47	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 11:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 11:15	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000021	J	0.00020	0.000020	mg/L		09/30/13 16:00	10/01/13 12:19	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0092	mg/Kg	☼	09/19/13 13:45	09/20/13 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.70		0.200	0.200	SU			10/02/13 14:22	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-3

Client Sample ID: 846D-22-B03

Lab Sample ID: 500-63234-6

Date Collected: 09/18/13 14:35

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0093		0.0045	0.0020	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Chloromethane	<0.0045		0.0045	0.00096	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00060	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
1,1-Dichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00060	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Styrene	<0.0045		0.0045	0.00060	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Tetrachloroethene	<0.0045		0.0045	0.00070	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Toluene	<0.0045		0.0045	0.00064	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00082	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Vinyl acetate	<0.0045		0.0045	0.00072	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Vinyl chloride	<0.0045		0.0045	0.00096	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	09/18/13 14:35	09/20/13 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	09/18/13 14:35	09/20/13 15:40	1
Dibromofluoromethane	93		75 - 120	09/18/13 14:35	09/20/13 15:40	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 134	09/18/13 14:35	09/20/13 15:40	1
Toluene-d8 (Surr)	99		75 - 122	09/18/13 14:35	09/20/13 15:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-3

Client Sample ID: 846D-22-B03

Lab Sample ID: 500-63234-6

Date Collected: 09/18/13 14:35

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-3

Client Sample ID: 846D-22-B03

Lab Sample ID: 500-63234-6

Date Collected: 09/18/13 14:35

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	09/20/13 07:23	10/04/13 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	38		25 - 110	09/20/13 07:23	10/04/13 14:40	1
Phenol-d5	43		31 - 110	09/20/13 07:23	10/04/13 14:40	1
Nitrobenzene-d5	44		25 - 115	09/20/13 07:23	10/04/13 14:40	1
2-Fluorobiphenyl	57		25 - 119	09/20/13 07:23	10/04/13 14:40	1
2,4,6-Tribromophenol	57		35 - 137	09/20/13 07:23	10/04/13 14:40	1
Terphenyl-d14	84		36 - 134	09/20/13 07:23	10/04/13 14:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	B	12	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Antimony	<1.2		1.2	0.48	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Arsenic	8.7		0.60	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Barium	570		0.60	0.064	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Beryllium	0.70		0.24	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Boron	5.4		3.0	0.13	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Cadmium	1.3		0.12	0.015	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Calcium	33000	B	12	3.3	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Chromium	14		0.60	0.070	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Cobalt	20		0.30	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Copper	29	B	0.60	0.053	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Iron	27000		12	4.9	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Lead	15	B	0.30	0.090	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Magnesium	24000	B	6.0	1.2	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Manganese	3600		6.0	0.33	mg/Kg	☼	09/19/13 08:30	10/08/13 11:27	10
Nickel	30	B	0.60	0.059	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Potassium	1400		30	1.8	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Silver	0.18	J	0.30	0.022	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Sodium	120		60	8.0	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Thallium	0.27	J	0.60	0.25	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Vanadium	23	B	0.30	0.044	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1
Zinc	57		1.2	0.24	mg/Kg	☼	09/19/13 08:30	10/08/13 01:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 04:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-3

Client Sample ID: 846D-22-B03

Lab Sample ID: 500-63234-6

Date Collected: 09/18/13 14:35

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.82		0.50	0.010	mg/L		09/30/13 07:45	10/04/13 04:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 04:53	1
Boron	1.6		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 04:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 04:53	1
Chromium	0.013	J	0.025	0.010	mg/L		09/30/13 07:45	10/04/13 04:53	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 04:53	1
Iron	5.4		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 04:53	1
Lead	0.0061	J	0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 04:53	1
Manganese	0.045		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 04:53	1
Nickel	<0.025		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 04:53	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 04:53	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 04:53	1
Zinc	0.67	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 04:53	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 11:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 11:18	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/30/13 16:00	10/01/13 12:21	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.0090	mg/Kg	✱	09/19/13 13:45	09/20/13 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77		0.200	0.200	SU			10/02/13 14:26	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15051 to 15101 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59856 Longitude: -87.98678

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59856 Longitude: -87.98678

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-23-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-23. SEE FIGURES 5 & 6, AND TABLE 3q OF THE REVISED PRELIMINARY SITE INVESTIGATION

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-63578-6 AND 500-63234-4

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

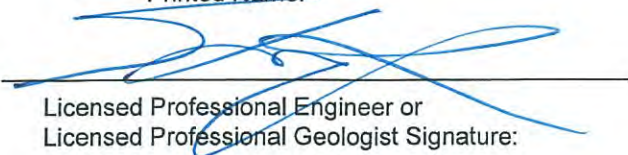
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

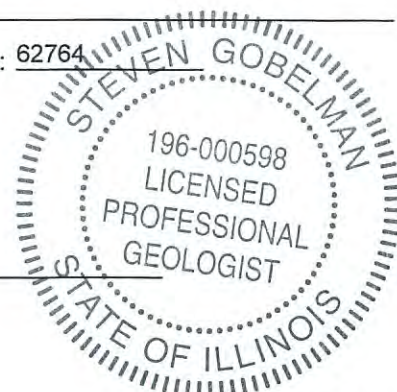
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-23

Residences

Sample ID	846D-23-B01	846D-23-B02							
Sample Depth (ft)	0-2	0-2							
Sample Date	9/24/2013	9/18/2013							
PID	0	0							
Sample pH	7.92	8.53							
Matrix	Soil	Soil							
Inorganic Compounds, Total (mg/kg)			11.3	NA	11.3	NA	13	NA	NA
Arsenic	2.6	13	1,3	NA	11.3	NA	13	NA	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63578-6
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/17/2013 8:48:17 AM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-6

Client Sample ID: 846D-23-B01

Lab Sample ID: 500-63578-37

Date Collected: 09/24/13 09:00

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 76.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Benzene	<0.0051		0.0051	0.00069	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Carbon disulfide	<0.0051		0.0051	0.00075	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Carbon tetrachloride	<0.0051		0.0051	0.00092	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Chlorobenzene	<0.0051		0.0051	0.00051	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Chloroform	<0.0051		0.0051	0.00058	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00066	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Dibromochloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00066	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00083	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Styrene	<0.0051		0.0051	0.00066	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Tetrachloroethene	<0.0051		0.0051	0.00077	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Trichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Vinyl acetate	<0.0051		0.0051	0.00079	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	09/24/13 09:00	10/01/13 23:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/24/13 09:00	10/01/13 23:37	1
Dibromofluoromethane	104		75 - 120	09/24/13 09:00	10/01/13 23:37	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	09/24/13 09:00	10/01/13 23:37	1
Toluene-d8 (Surr)	96		75 - 122	09/24/13 09:00	10/01/13 23:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.068	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
1,3-Dichlorobenzene	<0.22		0.22	0.045	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
1,4-Dichlorobenzene	<0.22		0.22	0.045	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-6

Client Sample ID: 846D-23-B01

Lab Sample ID: 500-63578-37

Date Collected: 09/24/13 09:00

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 76.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
2-Methylphenol	<0.22		0.22	0.057	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.048	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.055	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Hexachloroethane	<0.22		0.22	0.046	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
2-Chlorophenol	<0.22		0.22	0.061	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Nitrobenzene	<0.043		0.043	0.013	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.047	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
2,4-Dimethylphenol	<0.43		0.43	0.13	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Hexachlorobutadiene	<0.22		0.22	0.056	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Naphthalene	<0.043		0.043	0.0083	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
2,4-Dichlorophenol	<0.43		0.43	0.13	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
4-Chloroaniline	<0.87		0.87	0.13	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
2,4,6-Trichlorophenol	<0.43		0.43	0.054	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
2,4,5-Trichlorophenol	<0.43		0.43	0.12	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Hexachlorocyclopentadiene	<0.87		0.87	0.20	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
2-Methylnaphthalene	<0.22		0.22	0.056	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
2-Nitroaniline	<0.22		0.22	0.077	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
4-Chloro-3-methylphenol	<0.43		0.43	0.21	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
2,6-Dinitrotoluene	<0.22		0.22	0.051	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
2-Nitrophenol	<0.43		0.43	0.067	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
3-Nitroaniline	<0.43		0.43	0.083	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Dimethyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
2,4-Dinitrophenol	<0.87	*	0.87	0.22	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Acenaphthylene	<0.043		0.043	0.0099	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
2,4-Dinitrotoluene	<0.22		0.22	0.066	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Acenaphthene	<0.043		0.043	0.013	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Dibenzofuran	<0.22		0.22	0.052	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
4-Nitrophenol	<0.87		0.87	0.23	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Fluorene	<0.043		0.043	0.0098	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
4-Nitroaniline	<0.43		0.43	0.088	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.048	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Hexachlorobenzene	<0.087		0.087	0.0084	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Diethyl phthalate	<0.22		0.22	0.072	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.068	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Pentachlorophenol	<0.87		0.87	0.22	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
N-Nitrosodiphenylamine	<0.22		0.22	0.058	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
4,6-Dinitro-2-methylphenol	<0.43	*	0.43	0.10	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Phenanthrene	<0.043		0.043	0.018	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Anthracene	<0.043		0.043	0.010	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Carbazole	<0.22		0.22	0.060	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Di-n-butyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Fluoranthene	<0.043		0.043	0.018	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Pyrene	<0.043		0.043	0.016	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Butyl benzyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Benzo[a]anthracene	<0.043		0.043	0.0090	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-6

Client Sample ID: 846D-23-B01

Lab Sample ID: 500-63578-37

Date Collected: 09/24/13 09:00

Matrix: Solid

Date Received: 09/25/13 06:30

Percent Solids: 76.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.043		0.043	0.0097	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.036	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.057	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Di-n-octyl phthalate	<0.22		0.22	0.087	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Benzo[b]fluoranthene	<0.043		0.043	0.0083	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Benzo[k]fluoranthene	<0.043		0.043	0.010	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Benzo[a]pyrene	<0.043		0.043	0.0078	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.014	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Dibenz(a,h)anthracene	<0.043		0.043	0.012	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
3 & 4 Methylphenol	<0.22		0.22	0.081	mg/Kg	☼	10/02/13 18:17	10/03/13 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		25 - 110				10/02/13 18:17	10/03/13 19:30	1
Phenol-d5	61		31 - 110				10/02/13 18:17	10/03/13 19:30	1
Nitrobenzene-d5	67		25 - 115				10/02/13 18:17	10/03/13 19:30	1
2-Fluorobiphenyl	57		25 - 119				10/02/13 18:17	10/03/13 19:30	1
2,4,6-Tribromophenol	56		35 - 137				10/02/13 18:17	10/03/13 19:30	1
Terphenyl-d14	79		36 - 134				10/02/13 18:17	10/03/13 19:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100	B	12	1.1	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Antimony	<1.2		1.2	0.50	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Arsenic	2.6		0.62	0.12	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Barium	53		0.62	0.067	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Beryllium	0.56		0.25	0.022	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Boron	1.4	J	3.1	0.13	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Cadmium	0.25		0.12	0.016	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Calcium	3300	B	12	3.4	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Chromium	13		0.62	0.072	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Cobalt	7.1		0.31	0.022	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Copper	18	B	0.62	0.055	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Iron	13000	B	12	5.1	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Lead	16		0.31	0.093	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Magnesium	2900	B	6.2	1.3	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Manganese	68	B	0.62	0.034	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Nickel	22		0.62	0.061	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Potassium	580	B	31	1.9	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Selenium	0.33	J	0.62	0.22	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Sodium	760		62	8.4	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Thallium	<0.62		0.62	0.26	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Vanadium	18		0.31	0.046	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1
Zinc	58	B	1.2	0.25	mg/Kg	☼	09/25/13 10:15	10/11/13 10:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.2		0.10	0.050	mg/L		10/15/13 09:00	10/16/13 04:17	1
Iron	1.2		0.20	0.20	mg/L		10/15/13 09:00	10/16/13 04:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-6

Client Sample ID: 846D-23-B01

Lab Sample ID: 500-63578-37

Date Collected: 09/24/13 09:00

Matrix: Solid

Date Received: 09/25/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0054	J	0.0075	0.0050	mg/L		10/15/13 09:00	10/16/13 04:17	1
Manganese	0.025		0.025	0.010	mg/L		10/15/13 09:00	10/16/13 04:17	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		10/09/13 09:30	10/09/13 20:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/09/13 09:30	10/09/13 20:11	1
Boron	2.6		0.10	0.050	mg/L		10/09/13 09:30	10/09/13 20:11	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		10/09/13 09:30	10/09/13 20:11	1
Chromium	0.093		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 20:11	1
Cobalt	0.022	J	0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 20:11	1
Iron	79		0.20	0.20	mg/L		10/09/13 09:30	10/09/13 20:11	1
Lead	0.042		0.0075	0.0050	mg/L		10/09/13 09:30	10/09/13 20:11	1
Manganese	0.26		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 20:11	1
Nickel	0.066		0.025	0.010	mg/L		10/09/13 09:30	10/09/13 20:11	1
Selenium	<0.050		0.050	0.010	mg/L		10/09/13 09:30	10/09/13 20:11	1
Silver	<0.025		0.025	0.0050	mg/L		10/09/13 09:30	10/09/13 20:11	1
Zinc	1.2		0.10	0.020	mg/L		10/09/13 09:30	10/09/13 20:11	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/09/13 09:30	10/10/13 18:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/09/13 09:30	10/10/13 18:16	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00021		0.00020	0.000020	mg/L		10/09/13 16:00	10/10/13 12:09	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.019	0.0090	mg/Kg	☼	10/01/13 15:30	10/02/13 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.92		0.200	0.200	SU			10/10/13 16:18	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63578-6

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7 Wilson Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: <u> </u> of <u> </u> Lab Job No.: <u>500-63578</u> Sample Temp: <u> </u> Matrix Key: <u>34383235</u>
--	---	--	---

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBS	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization	
1	846D-10-B01-1	9/24/13	11:00	S	X	X						X	X	X			0-5'
2	846D-10-B01-1 DUP		11:05														0-5'
3	846D-10-B01-2		11:10														5-10'
4	846D-10-B02-1		10:45														0-5'
5	846D-10-B02-2		10:50														5-10'
6	846D-10-B03-1		10:35														0-5'
7	846D-10-B03-2		10:40														5-10'
8	846D-10-B04-1		10:20														0-5'
9	846D-10-B04-2		10:25														5-10'
10	846D-10-B05-1		10:10														0-5'
11	846D-10-B05-2		10:15														5-10'
12	846D-10-B06-1		9:55	S	X	X						X	X	X	X		0-5'
Relinquished by: <u>John A. Wright (AEI)</u>					Date/Time	Received by: <u>[Signature]</u>										Date/Time	
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>										Date/Time	
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>										Date/Time	

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6 / I7 Willie & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEI</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63578</u> Sample Temp.: <u>34.38 (32) 35</u> Matrix Key: <table style="font-size: small; margin-top: 5px;"> <tr><td>W:</td><td>Water</td></tr> <tr><td>S:</td><td>Soil</td></tr> <tr><td>SL:</td><td>Sludge</td></tr> <tr><td>S:</td><td>Sediment</td></tr> <tr><td>L:</td><td>Leachate</td></tr> <tr><td>DW:</td><td>Drinking Water</td></tr> <tr><td>OL:</td><td>Oil</td></tr> <tr><td>O:</td><td>Other</td></tr> </table>	W:	Water	S:	Soil	SL:	Sludge	S:	Sediment	L:	Leachate	DW:	Drinking Water	OL:	Oil	O:	Other
W:	Water																		
S:	Soil																		
SL:	Sludge																		
S:	Sediment																		
L:	Leachate																		
DW:	Drinking Water																		
OL:	Oil																		
O:	Other																		
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments			
13	846D-10-B06-1 DUP	9/24/13	10:00	S	X	X					X	X	X	X		0-5'			
14	846D-10-B06-2		10:05	S	X	X					X	X	X	X		5'-10'			
15	846D-10-B07-1		9:45	S	X	X					X	X	X	X		0-5'			
16	846D-10-B07-2	↓	9:50	S	X	X					X	X	X	X		5'-10'			
Relinquished by: <u>Kevin A. Wright (AEI)</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	Date/Time: <u>9/24/13 4:05</u>							
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	Date/Time: <u>9/25/13 0630</u>							
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	Date/Time: <u>9/25/13 0630</u>							



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>USO/IL7 Wino Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEZ</u>	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63578</u> Sample Temp: <u>3, 4, 3, 2, 3, 5</u> Matrix Key: <ul style="list-style-type: none"> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other 													
ANALYSES																
See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
17	846D-11-B01-1	9/24/13	3:20	S	X	X					X	X	X	X		0-6.5'
18	846D-11-B01-2		3:25													6.5-13'
19	846D-11-B02-1		3:05													0-6.5'
20	846D-11-B02-2		3:10													6.5-13'
21	846D-11-B03-1		2:50													0-6.5'
22	846D-11-B03-2		2:55	S	X	X					X	X	X	X		6.5-13'
					Date/Time	9/24/13	4:05	Received by: <u>[Signature]</u>								
					Date/Time	9/25/13	1:00	Received by: <u>[Signature]</u>								
					Date/Time			Received by:								



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6 / IL7 Wheel & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEJ</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63578</u> Sample Temp: <u>34.3/32.3/35</u> Matrix Key: <ul style="list-style-type: none"> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other 								
ANALYSES											
VOCs	SVOCs	BETX & MTBF	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
28	X	X	X	X	X	X	X	X	X		0-6.5'
29	X	X	X	X	X	X	X	X	X		6.5'-13'
30	X	X	X	X	X	X	X	X	X		0-6.5'
31	X	X	X	X	X	X	X	X	X		6.5'-13'
<p>Special Instructions:</p> <p>See Table 2 for complete parameter lists and minimum reporting limits.</p> <p>* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.</p> <p>** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.</p>											
Lab ID	Sample ID	Sample Date	Sample Time	Matrix							
28	846D-13-B01-1	9/24/13	12:50	S							
29	846D-13-B01-2		12:55	S							
30	846D-13-B02-1		1:20	S							
31	846D-13-B02-2	v	1:25	S							
Relinquished by: <u>Tim A. Gray (AEJ)</u>					Date/Time	9/24/13 4:05					
Relinquished by: <u>[Signature]</u>					Date/Time	9/24/13 1640					
Relinquished by: <u>[Signature]</u>					Date/Time	9/25/13 0630					

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63234-4
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/10/2013 2:36:07 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-4

Client Sample ID: 846D-23-B02

Lab Sample ID: 500-63234-7

Date Collected: 09/18/13 13:40

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 78.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0020	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	09/18/13 13:40	09/20/13 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	09/18/13 13:40	09/20/13 16:03	1
Dibromofluoromethane	98		75 - 120	09/18/13 13:40	09/20/13 16:03	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/18/13 13:40	09/20/13 16:03	1
Toluene-d8 (Surr)	94		75 - 122	09/18/13 13:40	09/20/13 16:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.067	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-4

Client Sample ID: 846D-23-B02

Lab Sample ID: 500-63234-7

Date Collected: 09/18/13 13:40

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 78.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
2-Methylphenol	<0.21		0.21	0.056	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Naphthalene	<0.042		0.042	0.0081	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
4-Chloroaniline	<0.85		0.85	0.13	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
2,4,6-Trichlorophenol	<0.42		0.42	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Hexachlorocyclopentadiene	<0.85		0.85	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
2-Methylnaphthalene	<0.21		0.21	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
2-Nitroaniline	<0.21		0.21	0.076	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
2-Nitrophenol	<0.42		0.42	0.066	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
3-Nitroaniline	<0.42		0.42	0.081	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
2,4-Dinitrophenol	<0.85		0.85	0.22	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Acenaphthylene	<0.042		0.042	0.0097	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
4-Nitrophenol	<0.85		0.85	0.23	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Fluorene	<0.042		0.042	0.0096	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
4-Nitroaniline	<0.42		0.42	0.086	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Hexachlorobenzene	<0.085		0.085	0.0083	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Pentachlorophenol	<0.85		0.85	0.21	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Phenanthrene	<0.042		0.042	0.018	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Anthracene	<0.042		0.042	0.0099	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Fluoranthene	<0.042		0.042	0.017	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Pyrene	<0.042		0.042	0.015	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Butyl benzyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Benzo[a]anthracene	<0.042		0.042	0.0088	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-4

Client Sample ID: 846D-23-B02

Lab Sample ID: 500-63234-7

Date Collected: 09/18/13 13:40

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 78.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.0095	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.056	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Di-n-octyl phthalate	<0.21		0.21	0.085	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Benzo[b]fluoranthene	<0.042		0.042	0.0082	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Benzo[k]fluoranthene	<0.042		0.042	0.010	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Benzo[a]pyrene	<0.042		0.042	0.0077	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.014	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Dibenz(a,h)anthracene	<0.042		0.042	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1
3 & 4 Methylphenol	<0.21		0.21	0.080	mg/Kg	☼	09/20/13 07:23	10/04/13 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		25 - 110	09/20/13 07:23	10/04/13 15:24	1
Phenol-d5	54		31 - 110	09/20/13 07:23	10/04/13 15:24	1
Nitrobenzene-d5	54		25 - 115	09/20/13 07:23	10/04/13 15:24	1
2-Fluorobiphenyl	64		25 - 119	09/20/13 07:23	10/04/13 15:24	1
2,4,6-Tribromophenol	64		35 - 137	09/20/13 07:23	10/04/13 15:24	1
Terphenyl-d14	89		36 - 134	09/20/13 07:23	10/04/13 15:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000	B	12	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Arsenic	13		0.58	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Barium	93		0.58	0.062	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Beryllium	0.77		0.23	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Boron	4.8		2.9	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Cadmium	0.81		0.12	0.015	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Calcium	16000	B	12	3.2	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Chromium	17		0.58	0.068	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Cobalt	12		0.29	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Copper	33	B	0.58	0.052	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Iron	25000		12	4.8	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Lead	15	B	0.29	0.087	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Magnesium	12000	B	5.8	1.2	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Manganese	530		0.58	0.032	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Nickel	28	B	0.58	0.057	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Potassium	1400		29	1.8	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Sodium	730		58	7.8	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Thallium	0.28	J	0.58	0.25	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Vanadium	24	B	0.29	0.043	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1
Zinc	61		1.2	0.24	mg/Kg	☼	09/19/13 08:30	10/08/13 01:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/08/13 08:00	10/09/13 04:32	1
Chromium	<0.025		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 04:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-4

Client Sample ID: 846D-23-B02

Lab Sample ID: 500-63234-7

Date Collected: 09/18/13 13:40

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 04:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 04:32	1
Manganese	0.72		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 04:32	1
Nickel	0.016	J	0.025	0.010	mg/L		10/08/13 08:00	10/09/13 04:32	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		09/30/13 07:45	10/04/13 04:59	1
Beryllium	0.0056		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 04:59	1
Boron	1.7		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 04:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 04:59	1
Chromium	0.12		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 04:59	1
Cobalt	0.032		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 04:59	1
Iron	130		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 04:59	1
Lead	0.057		0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 04:59	1
Manganese	0.51		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 04:59	1
Nickel	0.12		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 04:59	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 04:59	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 04:59	1
Zinc	0.98	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 04:59	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/08/13 08:00	10/08/13 18:04	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 11:22	1
Thallium	0.0029		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 11:22	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00024		0.00020	0.000020	mg/L		09/30/13 16:00	10/01/13 12:23	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.021	0.010	mg/Kg	☼	09/19/13 13:45	09/20/13 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.53		0.200	0.200	SU			10/02/13 14:30	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-4

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Name: US6/IL7 WIND + COOK Co. Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: A-E-I		COC No.: 1 of 1 Lab Job No.: 500-63234 Sample Temp: 3, 2, 3, 5, 3, 4 Matrix Key:	
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES VOCs SVOCs BETX & MTBE PNAS Pesticides PCBs * Total Metals SPLP** TCLP Metals PH % Solids Waste Characterization		W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other		Comments 0-2	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix			
7	846D-23-Bo1	9/18	1:40	S	X	X	
	846D-23-Bo2	9/18	1:40	S	X	X	
Relinquished by:		Date/Time		Received by:			
[Signature]		9/18 4:00		Karl B.			
Relinquished by:		Date/Time		Received by:			
[Signature]		9/18/13 1645		Shawn Booth			
Relinquished by:		Date/Time		Received by:			
[Signature]		9/19/13 0630		[Signature]			



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
15001 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59873 Longitude: -87.98440
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1978075034 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59873 Longitude: -87.98440

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 846D-24-B01 AND -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-24. SEE FIGURE 6 AND TABLE 3r OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-63234-5

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))


Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

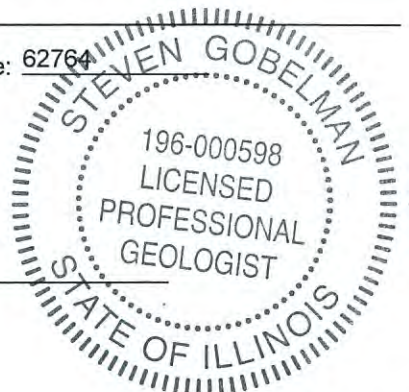
City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman
Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/12/17
 Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-24

Beary Landscaping Company

Sample ID	846D-24-B01	846D-24-B03						
Sample Depth (ft)	0-3	0-3						
Sample Date	9/18/2013	9/18/2013						
PID	0	0						
Sample pH	8	8.2						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								
			¹ Most Stringent	² Outside a	³ Populated	⁴ Within	⁵ Metropolitan	⁶ Class I Soil
			MAC	Populated Area	non-	Chicago	Statistical Area	TCLP/SPLP
				MAC	Metropolitan	Corporate Limits	Statistical Area	Comparisons
				MAC	Statistical Area	MAC	MAC	Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63234-5
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/10/2013 2:36:36 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-5

Client Sample ID: 846D-24-B01

Lab Sample ID: 500-63234-8

Date Collected: 09/18/13 12:15

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 78.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1
Xylenes, Total	<0.0096		0.0096	0.00044	mg/Kg	☼	09/18/13 12:15	09/20/13 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	09/18/13 12:15	09/20/13 16:26	1
Dibromofluoromethane	97		75 - 120	09/18/13 12:15	09/20/13 16:26	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/18/13 12:15	09/20/13 16:26	1
Toluene-d8 (Surr)	100		75 - 122	09/18/13 12:15	09/20/13 16:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.066	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-5

Client Sample ID: 846D-24-B01

Lab Sample ID: 500-63234-8

Date Collected: 09/18/13 12:15

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 78.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
2-Methylphenol	<0.21		0.21	0.056	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Naphthalene	<0.042		0.042	0.0081	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
2,4,6-Trichlorophenol	<0.42		0.42	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
2-Nitrophenol	<0.42		0.42	0.066	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
3-Nitroaniline	<0.42		0.42	0.081	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Acenaphthylene	<0.042		0.042	0.0096	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
4-Nitrophenol	<0.84		0.84	0.23	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Fluorene	<0.042		0.042	0.0095	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
4-Nitroaniline	<0.42		0.42	0.086	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Phenanthrene	<0.042		0.042	0.018	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Anthracene	<0.042		0.042	0.0098	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Fluoranthene	<0.042		0.042	0.017	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Pyrene	<0.042		0.042	0.015	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Benzo[a]anthracene	<0.042		0.042	0.0088	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-5

Client Sample ID: 846D-24-B01

Lab Sample ID: 500-63234-8

Date Collected: 09/18/13 12:15

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 78.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.0095	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Di-n-octyl phthalate	<0.21		0.21	0.085	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Benzo[b]fluoranthene	<0.042		0.042	0.0081	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Benzo[k]fluoranthene	<0.042		0.042	0.010	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Benzo[a]pyrene	<0.042		0.042	0.0076	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.014	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Dibenz(a,h)anthracene	<0.042		0.042	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1
3 & 4 Methylphenol	<0.21		0.21	0.079	mg/Kg	☼	09/20/13 07:23	10/04/13 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	34		25 - 110	09/20/13 07:23	10/04/13 15:46	1
Phenol-d5	37		31 - 110	09/20/13 07:23	10/04/13 15:46	1
Nitrobenzene-d5	35		25 - 115	09/20/13 07:23	10/04/13 15:46	1
2-Fluorobiphenyl	41		25 - 119	09/20/13 07:23	10/04/13 15:46	1
2,4,6-Tribromophenol	53		35 - 137	09/20/13 07:23	10/04/13 15:46	1
Terphenyl-d14	68		36 - 134	09/20/13 07:23	10/04/13 15:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000	B	12	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Antimony	<1.2		1.2	0.50	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Arsenic	4.1		0.62	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Barium	110		0.62	0.066	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Beryllium	0.90		0.25	0.022	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Boron	2.2	J	3.1	0.13	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Cadmium	0.42		0.12	0.016	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Calcium	6400	B	12	3.4	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Chromium	16		0.62	0.072	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Cobalt	4.4		0.31	0.022	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Copper	32	B	0.62	0.055	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Iron	18000		12	5.1	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Lead	13	B	0.31	0.092	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Magnesium	4800	B	6.2	1.3	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Manganese	76		0.62	0.034	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Nickel	21	B	0.62	0.061	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Potassium	630		31	1.9	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Selenium	<0.62		0.62	0.22	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Sodium	120		62	8.3	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Thallium	<0.62		0.62	0.26	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Vanadium	27	B	0.31	0.046	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1
Zinc	47		1.2	0.25	mg/Kg	☼	09/19/13 08:30	10/08/13 01:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 04:37	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 04:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-5

Client Sample ID: 846D-24-B01

Lab Sample ID: 500-63234-8

Date Collected: 09/18/13 12:15

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.94		0.50	0.010	mg/L		09/30/13 07:45	10/04/13 05:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 05:05	1
Boron	1.7		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 05:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 05:05	1
Chromium	0.017	J	0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:05	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 05:05	1
Iron	8.3		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 05:05	1
Lead	0.0085		0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 05:05	1
Manganese	0.035		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:05	1
Nickel	0.012	J	0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:05	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 05:05	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 05:05	1
Zinc	0.71	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 05:05	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 11:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 11:25	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000046	J	0.00020	0.000020	mg/L		09/30/13 16:00	10/01/13 12:29	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.020	0.0092	mg/Kg	☼	09/19/13 13:45	09/20/13 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.00		0.200	0.200	SU			10/02/13 14:33	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-5

Client Sample ID: 846D-24-B03

Lab Sample ID: 500-63234-10

Date Collected: 09/18/13 15:35

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 84.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0091		0.0041	0.0018	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Chloromethane	<0.0041		0.0041	0.00087	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
1,1-Dichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
1,2-Dichloropropane	<0.0041		0.0041	0.00063	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Vinyl chloride	<0.0041		0.0041	0.00087	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	09/18/13 15:35	09/20/13 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/18/13 15:35	09/20/13 17:12	1
Dibromofluoromethane	99		75 - 120	09/18/13 15:35	09/20/13 17:12	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/18/13 15:35	09/20/13 17:12	1
Toluene-d8 (Surr)	98		75 - 122	09/18/13 15:35	09/20/13 17:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-5

Client Sample ID: 846D-24-B03

Lab Sample ID: 500-63234-10

Date Collected: 09/18/13 15:35

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-5

Client Sample ID: 846D-24-B03

Lab Sample ID: 500-63234-10

Date Collected: 09/18/13 15:35

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/20/13 07:23	10/04/13 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		25 - 110	09/20/13 07:23	10/04/13 14:31	1
Phenol-d5	56		31 - 110	09/20/13 07:23	10/04/13 14:31	1
Nitrobenzene-d5	50		25 - 115	09/20/13 07:23	10/04/13 14:31	1
2-Fluorobiphenyl	53		25 - 119	09/20/13 07:23	10/04/13 14:31	1
2,4,6-Tribromophenol	66		35 - 137	09/20/13 07:23	10/04/13 14:31	1
Terphenyl-d14	103		36 - 134	09/20/13 07:23	10/04/13 14:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8800	B	11	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Arsenic	11		0.57	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Barium	47		0.57	0.061	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Beryllium	0.59		0.23	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Boron	7.4		2.9	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Cadmium	0.97		0.11	0.015	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Calcium	44000	B	11	3.1	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Chromium	14		0.57	0.066	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Cobalt	10		0.29	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Copper	26	B	0.57	0.051	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Iron	24000		11	4.7	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Lead	12	B	0.29	0.085	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Magnesium	25000	B	5.7	1.2	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Manganese	540		0.57	0.031	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Nickel	26	B	0.57	0.056	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Potassium	1800		29	1.7	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Sodium	230		57	7.7	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Thallium	0.41	J	0.57	0.24	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Vanadium	18	B	0.29	0.042	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1
Zinc	53		1.1	0.23	mg/Kg	☼	09/19/13 08:30	10/08/13 01:52	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.87		0.50	0.010	mg/L		09/30/13 07:45	10/04/13 05:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 05:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-5

Client Sample ID: 846D-24-B03

Lab Sample ID: 500-63234-10

Date Collected: 09/18/13 15:35

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.6		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 05:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 05:18	1
Chromium	<0.025		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:18	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 05:18	1
Iron	4.4		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 05:18	1
Lead	0.0057	J	0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 05:18	1
Manganese	0.028		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:18	1
Nickel	<0.025		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:18	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 05:18	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 05:18	1
Zinc	0.68	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 05:18	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 11:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 11:32	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/30/13 16:00	10/01/13 12:33	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.018	0.0083	mg/Kg	☼	09/19/13 13:45	09/20/13 10:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.20		0.200	0.200	SU			10/03/13 11:35	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-5

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14960 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59887 Longitude: -87.98397

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59887 Longitude: -87.98397

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-25-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE NO. 846D-25. SEE FIGURE 6 AND TABLE 3s OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NO.: 500-63234-6

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

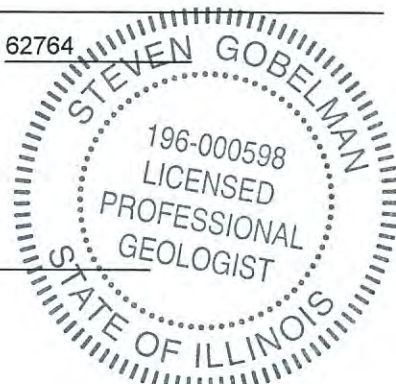
Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14
Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63234-6
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/10/2013 2:37:02 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-6

Client Sample ID: 846D-25-B01

Lab Sample ID: 500-63234-11

Date Collected: 09/18/13 15:00

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 80.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1
Xylenes, Total	<0.0098		0.0098	0.00045	mg/Kg	☼	09/18/13 15:00	09/20/13 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/18/13 15:00	09/20/13 17:34	1
Dibromofluoromethane	99		75 - 120	09/18/13 15:00	09/20/13 17:34	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	09/18/13 15:00	09/20/13 17:34	1
Toluene-d8 (Surr)	98		75 - 122	09/18/13 15:00	09/20/13 17:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-6

Client Sample ID: 846D-25-B01

Lab Sample ID: 500-63234-11

Date Collected: 09/18/13 15:00

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 80.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Phenanthrene	0.061		0.040	0.017	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Fluoranthene	0.13		0.040	0.017	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Pyrene	0.11		0.040	0.015	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Benzo[a]anthracene	0.056		0.040	0.0085	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-6

Client Sample ID: 846D-25-B01

Lab Sample ID: 500-63234-11

Date Collected: 09/18/13 15:00

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 80.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.058		0.040	0.0091	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Benzo[b]fluoranthene	0.070		0.040	0.0078	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Benzo[k]fluoranthene	0.032 J		0.040	0.0096	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Benzo[a]pyrene	0.047		0.040	0.0074	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Indeno[1,2,3-cd]pyrene	0.032 J		0.040	0.014	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Benzo[g,h,i]perylene	0.036 J		0.040	0.014	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	09/20/13 07:23	10/04/13 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		25 - 110				09/20/13 07:23	10/04/13 14:52	1
Phenol-d5	56		31 - 110				09/20/13 07:23	10/04/13 14:52	1
Nitrobenzene-d5	50		25 - 115				09/20/13 07:23	10/04/13 14:52	1
2-Fluorobiphenyl	48		25 - 119				09/20/13 07:23	10/04/13 14:52	1
2,4,6-Tribromophenol	59		35 - 137				09/20/13 07:23	10/04/13 14:52	1
Terphenyl-d14	89		36 - 134				09/20/13 07:23	10/04/13 14:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000 B		12	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Arsenic	12		0.58	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Barium	110		0.58	0.062	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Beryllium	0.94		0.23	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Boron	3.7		2.9	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Cadmium	0.88		0.12	0.015	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Calcium	8400 B		12	3.1	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Chromium	19		0.58	0.067	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Cobalt	14		0.29	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Copper	29 B		0.58	0.051	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Iron	27000		12	4.8	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Lead	16 B		0.29	0.086	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Magnesium	7400 B		5.8	1.2	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Manganese	550		0.58	0.031	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Nickel	30 B		0.58	0.057	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Potassium	1200		29	1.7	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Selenium	0.39 J		0.58	0.21	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Sodium	1000		58	7.8	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Thallium	0.30 J		0.58	0.24	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Vanadium	26 B		0.29	0.043	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1
Zinc	63		1.2	0.23	mg/Kg	☼	09/19/13 08:30	10/08/13 01:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/08/13 08:00	10/09/13 04:48	1
Chromium	<0.025		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 04:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-6

Client Sample ID: 846D-25-B01

Lab Sample ID: 500-63234-11

Date Collected: 09/18/13 15:00

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 04:48	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 04:48	1
Manganese	0.074		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 04:48	1
Nickel	<0.025		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 04:48	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.7		0.50	0.010	mg/L		09/30/13 07:45	10/04/13 05:24	1
Beryllium	0.0083		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 05:24	1
Boron	1.6		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 05:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 05:24	1
Chromium	0.19		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:24	1
Cobalt	0.035		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 05:24	1
Iron	190		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 05:24	1
Lead	0.057		0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 05:24	1
Manganese	0.66		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:24	1
Nickel	0.17		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:24	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 05:24	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 05:24	1
Zinc	1.1	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 05:24	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/08/13 08:00	10/08/13 18:11	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 11:35	1
Thallium	0.0044		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 11:35	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00047		0.00020	0.000020	mg/L		09/30/13 16:00	10/01/13 12:35	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.019	0.0088	mg/Kg	☼	09/19/13 13:45	09/20/13 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.40		0.200	0.200	SU			10/03/13 11:38	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-6

Client Sample ID: 846D-25-B02

Lab Sample ID: 500-63234-12

Date Collected: 09/18/13 15:05

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 82.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.028		0.0044	0.0019	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
2-Butanone (MEK)	0.0066		0.0044	0.0016	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	09/18/13 15:05	09/23/13 10:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/18/13 15:05	09/23/13 10:56	1
Dibromofluoromethane	100		75 - 120	09/18/13 15:05	09/23/13 10:56	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/18/13 15:05	09/23/13 10:56	1
Toluene-d8 (Surr)	95		75 - 122	09/18/13 15:05	09/23/13 10:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-6

Client Sample ID: 846D-25-B02

Lab Sample ID: 500-63234-12

Date Collected: 09/18/13 15:05

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Phenanthrene	0.023	J	0.038	0.016	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Pyrene	0.014	J	0.038	0.014	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Benzo[a]anthracene	0.010	J	0.038	0.0080	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-6

Client Sample ID: 846D-25-B02

Lab Sample ID: 500-63234-12

Date Collected: 09/18/13 15:05

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.038	0.0086	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Benzo[b]fluoranthene	0.013	J	0.038	0.0074	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Benzo[a]pyrene	0.0092	J	0.038	0.0070	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/20/13 07:23	10/04/13 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110				09/20/13 07:23	10/04/13 15:13	1
Phenol-d5	51		31 - 110				09/20/13 07:23	10/04/13 15:13	1
Nitrobenzene-d5	43		25 - 115				09/20/13 07:23	10/04/13 15:13	1
2-Fluorobiphenyl	45		25 - 119				09/20/13 07:23	10/04/13 15:13	1
2,4,6-Tribromophenol	72		35 - 137				09/20/13 07:23	10/04/13 15:13	1
Terphenyl-d14	87		36 - 134				09/20/13 07:23	10/04/13 15:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7700	B	12	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Antimony	<1.2		1.2	0.46	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Arsenic	7.8		0.58	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Barium	84		0.58	0.062	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Beryllium	0.62		0.23	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Boron	4.4		2.9	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Cadmium	0.47		0.12	0.015	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Calcium	2900	B	12	3.1	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Chromium	11		0.58	0.067	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Cobalt	9.4		0.29	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Copper	16	B	0.58	0.051	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Iron	15000		12	4.7	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Lead	28	B	0.29	0.086	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Magnesium	2100	B	5.8	1.2	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Manganese	350		0.58	0.031	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Nickel	13	B	0.58	0.057	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Potassium	890		29	1.7	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Selenium	0.63		0.58	0.21	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Sodium	1300		58	7.7	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Thallium	0.29	J	0.58	0.24	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Vanadium	19	B	0.29	0.043	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1
Zinc	44		1.2	0.23	mg/Kg	☼	09/19/13 08:30	10/08/13 02:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.97		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 04:53	1
Lead	0.013		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 04:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-6

Client Sample ID: 846D-25-B02

Lab Sample ID: 500-63234-12

Date Collected: 09/18/13 15:05

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	10		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 04:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		09/30/13 07:45	10/04/13 05:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 05:45	1
Boron	1.8		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 05:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 05:45	1
Chromium	0.066		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:45	1
Cobalt	0.032		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 05:45	1
Iron	60		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 05:45	1
Lead	0.064		0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 05:45	1
Manganese	0.84		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:45	1
Nickel	0.052		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:45	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 05:45	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 05:45	1
Zinc	0.90	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 05:45	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 11:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 11:49	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020		0.00020	0.000020	mg/L		09/30/13 16:00	10/01/13 12:37	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.018	0.0084	mg/Kg	☼	09/19/13 13:45	09/20/13 10:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.28		0.200	0.200	SU			10/03/13 11:40	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-6

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericalnc.com	Project Name: US6/IL7 Willow Creek Co. Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: 1 of 1 Lab Job No.: 500-63234 Sample Temp: 3, 2, 3, 5, 3, 4 Matrix Key:
---	---	---	---

Special Instructions:
See Table 2 for complete parameter lists and minimum reporting limits.
* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
11	846D-25-B01	9/18	3:00	S	X	X					X	X	X	X		0-1
12	846D-25-B02	↓	3:05	S	X	X					X	X	X	X		0-1

Relinquished by: <i>[Signature]</i> Date/Time: 9/18 4:00	Received by: <i>[Signature]</i> Date/Time: 9/18/13 16:00
Relinquished by: <i>[Signature]</i> Date/Time: 9/18/13 16:45	Received by: <i>[Signature]</i> Date/Time: 9/19/13 16:30
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14928 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59901 Longitude: -87.98303
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 1970505132 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)Latitude: 41.59901 Longitude: -87.98303Uncontaminated Site Certification**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-26-B01 THROUGH -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-26. SEE FIGURE 6 AND TABLE 3t OF THE REVISED PRELIMINARY SITE INVESTIGATION

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-63234-7 AND 500-63499-8


IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

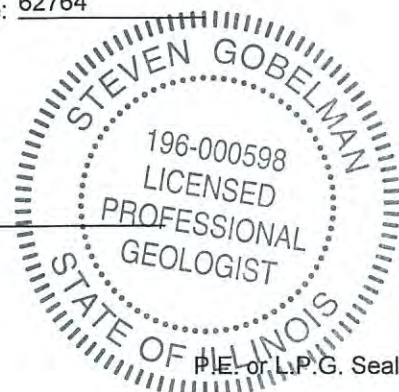
I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date: 11/13/14

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63234-7
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/10/2013 2:37:38 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-7

Client Sample ID: 846D-26-B01

Lab Sample ID: 500-63234-13

Date Collected: 09/18/13 15:15

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
1,2-Dichloropropane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00078	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	09/18/13 15:15	09/20/13 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	09/18/13 15:15	09/20/13 18:20	1
Dibromofluoromethane	98		75 - 120	09/18/13 15:15	09/20/13 18:20	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	09/18/13 15:15	09/20/13 18:20	1
Toluene-d8 (Surr)	94		75 - 122	09/18/13 15:15	09/20/13 18:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-7

Client Sample ID: 846D-26-B01

Lab Sample ID: 500-63234-13

Date Collected: 09/18/13 15:15

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Fluoranthene	0.023	J	0.039	0.016	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Pyrene	0.029	J	0.039	0.014	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Benzo[a]anthracene	0.015	J	0.039	0.0083	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-7

Client Sample ID: 846D-26-B01

Lab Sample ID: 500-63234-13

Date Collected: 09/18/13 15:15

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.039	0.0089	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Benzo[b]fluoranthene	0.026	J	0.039	0.0077	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Benzo[a]pyrene	0.015	J	0.039	0.0072	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	09/20/13 07:23	10/04/13 15:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110				09/20/13 07:23	10/04/13 15:34	1
Phenol-d5	53		31 - 110				09/20/13 07:23	10/04/13 15:34	1
Nitrobenzene-d5	44		25 - 115				09/20/13 07:23	10/04/13 15:34	1
2-Fluorobiphenyl	51		25 - 119				09/20/13 07:23	10/04/13 15:34	1
2,4,6-Tribromophenol	76		35 - 137				09/20/13 07:23	10/04/13 15:34	1
Terphenyl-d14	105		36 - 134				09/20/13 07:23	10/04/13 15:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	B	12	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Antimony	<1.2		1.2	0.48	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Arsenic	9.6		0.59	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Barium	94		0.59	0.064	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Beryllium	0.75		0.24	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Boron	5.3		3.0	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Cadmium	0.92		0.12	0.015	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Calcium	19000	B	12	3.2	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Chromium	16		0.59	0.069	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Cobalt	11		0.30	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Copper	27	B	0.59	0.053	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Iron	20000		12	4.9	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Lead	28	B	0.30	0.089	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Magnesium	11000	B	5.9	1.2	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Manganese	560		0.59	0.032	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Nickel	24	B	0.59	0.058	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Potassium	1300		30	1.8	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Selenium	0.46	J	0.59	0.21	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Sodium	210		59	8.0	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Thallium	0.42	J	0.59	0.25	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Vanadium	23	B	0.30	0.044	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1
Zinc	110		1.2	0.24	mg/Kg	☼	09/19/13 08:30	10/08/13 02:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.24		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 04:58	1
Lead	0.0058	J	0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 04:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-7

Client Sample ID: 846D-26-B01

Lab Sample ID: 500-63234-13

Date Collected: 09/18/13 15:15

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.12		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 04:58	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		09/30/13 07:45	10/04/13 05:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 05:51	1
Boron	1.9		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 05:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 05:51	1
Chromium	0.038		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:51	1
Cobalt	0.0086	J	0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 05:51	1
Iron	36		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 05:51	1
Lead	0.023		0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 05:51	1
Manganese	0.16		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:51	1
Nickel	0.034		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:51	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 05:51	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 05:51	1
Zinc	0.91	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 05:51	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 11:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 11:52	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000091	J	0.00020	0.000020	mg/L		09/30/13 16:00	10/01/13 12:39	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.019	0.0091	mg/Kg	☼	09/19/13 13:45	09/20/13 10:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86		0.200	0.200	SU			10/03/13 11:43	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-7

Client Sample ID: 846D-26-B01 DUP

Lab Sample ID: 500-63234-14

Date Collected: 09/18/13 15:20

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 79.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.010		0.0048	0.0021	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Carbon tetrachloride	<0.0048		0.0048	0.00086	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00062	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
1,2-Dichloroethane	<0.0048		0.0048	0.00070	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00062	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0012	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00078	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Styrene	<0.0048		0.0048	0.00062	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00065	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Trichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	09/18/13 15:20	09/20/13 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/18/13 15:20	09/20/13 18:43	1
Dibromofluoromethane	99		75 - 120	09/18/13 15:20	09/20/13 18:43	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	09/18/13 15:20	09/20/13 18:43	1
Toluene-d8 (Surr)	97		75 - 122	09/18/13 15:20	09/20/13 18:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.066	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-7

Client Sample ID: 846D-26-B01 DUP

Lab Sample ID: 500-63234-14

Date Collected: 09/18/13 15:20

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 79.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
3-Nitroaniline	<0.41		0.41	0.081	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Acenaphthylene	<0.041		0.041	0.0096	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
4-Nitrophenol	<0.84		0.84	0.22	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Fluorene	<0.041		0.041	0.0095	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
4-Nitroaniline	<0.41		0.41	0.086	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Anthracene	<0.041		0.041	0.0098	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Benzo[a]anthracene	<0.041		0.041	0.0087	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-7

Client Sample ID: 846D-26-B01 DUP

Lab Sample ID: 500-63234-14

Date Collected: 09/18/13 15:20

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 79.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.0094	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Di-n-octyl phthalate	<0.21		0.21	0.085	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Benzo[b]fluoranthene	<0.041		0.041	0.0081	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Benzo[k]fluoranthene	<0.041		0.041	0.010	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Benzo[a]pyrene	<0.041		0.041	0.0076	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
3 & 4 Methylphenol	<0.21		0.21	0.079	mg/Kg	☼	09/20/13 07:23	10/04/13 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		25 - 110				09/20/13 07:23	10/04/13 15:55	1
Phenol-d5	39		31 - 110				09/20/13 07:23	10/04/13 15:55	1
Nitrobenzene-d5	34		25 - 115				09/20/13 07:23	10/04/13 15:55	1
2-Fluorobiphenyl	33		25 - 119				09/20/13 07:23	10/04/13 15:55	1
2,4,6-Tribromophenol	49		35 - 137				09/20/13 07:23	10/04/13 15:55	1
Terphenyl-d14	64		36 - 134				09/20/13 07:23	10/04/13 15:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000	B	12	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Antimony	<1.2		1.2	0.49	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Arsenic	12		0.61	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Barium	75		0.61	0.065	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Beryllium	0.81		0.24	0.022	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Boron	4.5		3.1	0.13	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Cadmium	0.80		0.12	0.016	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Calcium	12000	B	12	3.3	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Chromium	19		0.61	0.071	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Cobalt	11		0.31	0.022	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Copper	32	B	0.61	0.054	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Iron	26000		12	5.0	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Lead	16	B	0.31	0.091	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Magnesium	9600	B	6.1	1.3	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Manganese	440		0.61	0.033	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Nickel	31	B	0.61	0.060	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Potassium	1400		31	1.8	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Selenium	<0.61		0.61	0.22	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Sodium	120		61	8.2	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Thallium	0.60	J	0.61	0.26	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Vanadium	23	B	0.31	0.045	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1
Zinc	60		1.2	0.25	mg/Kg	☼	09/19/13 08:30	10/08/13 02:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.084	J B	0.50	0.050	mg/L		10/08/13 08:00	10/09/13 05:03	1
Iron	0.36		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 05:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-7

Client Sample ID: 846D-26-B01 DUP

Lab Sample ID: 500-63234-14

Date Collected: 09/18/13 15:20

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 05:03	1
Manganese	1.0		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 05:03	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		09/30/13 07:45	10/04/13 05:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 05:58	1
Boron	2.0		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 05:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 05:58	1
Chromium	0.036		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:58	1
Cobalt	0.0092	J	0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 05:58	1
Iron	30		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 05:58	1
Lead	0.017		0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 05:58	1
Manganese	0.17		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:58	1
Nickel	0.034		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 05:58	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 05:58	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 05:58	1
Zinc	0.90	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 05:58	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 11:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 11:56	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000020	mg/L		09/30/13 16:00	10/01/13 12:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.020	0.0094	mg/Kg	☼	09/19/13 13:45	09/20/13 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86		0.200	0.200	SU			10/03/13 11:46	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-7

Client Sample ID: 846D-26-B02

Lab Sample ID: 500-63234-15

Date Collected: 09/18/13 15:25

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 87.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	09/18/13 15:25	09/20/13 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/18/13 15:25	09/20/13 19:06	1
Dibromofluoromethane	97		75 - 120	09/18/13 15:25	09/20/13 19:06	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/18/13 15:25	09/20/13 19:06	1
Toluene-d8 (Surr)	96		75 - 122	09/18/13 15:25	09/20/13 19:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-7

Client Sample ID: 846D-26-B02

Lab Sample ID: 500-63234-15

Date Collected: 09/18/13 15:25

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-7

Client Sample ID: 846D-26-B02

Lab Sample ID: 500-63234-15

Date Collected: 09/18/13 15:25

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	09/20/13 07:23	10/04/13 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	43		25 - 110	09/20/13 07:23	10/04/13 16:16	1
Phenol-d5	39		31 - 110	09/20/13 07:23	10/04/13 16:16	1
Nitrobenzene-d5	36		25 - 115	09/20/13 07:23	10/04/13 16:16	1
2-Fluorobiphenyl	35		25 - 119	09/20/13 07:23	10/04/13 16:16	1
2,4,6-Tribromophenol	45		35 - 137	09/20/13 07:23	10/04/13 16:16	1
Terphenyl-d14	67		36 - 134	09/20/13 07:23	10/04/13 16:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8300	B	11	1.0	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Arsenic	9.7		0.57	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Barium	42		0.57	0.061	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Beryllium	0.56		0.23	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Boron	7.4		2.8	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Cadmium	0.93		0.11	0.014	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Calcium	81000	B	110	31	mg/Kg	☼	09/19/13 08:30	10/08/13 11:42	10
Chromium	13		0.57	0.066	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Cobalt	10		0.28	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Copper	25	B	0.57	0.050	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Iron	18000		11	4.7	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Lead	13	B	0.28	0.085	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Magnesium	32000	B	5.7	1.2	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Manganese	420		0.57	0.031	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Nickel	24	B	0.57	0.056	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Potassium	1600		28	1.7	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Sodium	180		57	7.6	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Thallium	0.40	J	0.57	0.24	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Vanadium	17	B	0.28	0.042	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1
Zinc	45		1.1	0.23	mg/Kg	☼	09/19/13 08:30	10/08/13 02:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 05:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-7

Client Sample ID: 846D-26-B02

Lab Sample ID: 500-63234-15

Date Collected: 09/18/13 15:25

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.010	mg/L		09/30/13 07:45	10/04/13 06:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 06:04	1
Boron	1.9		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 06:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 06:04	1
Chromium	0.014	J	0.025	0.010	mg/L		09/30/13 07:45	10/04/13 06:04	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 06:04	1
Iron	8.6		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 06:04	1
Lead	0.0072	J	0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 06:04	1
Manganese	0.046		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 06:04	1
Nickel	0.011	J	0.025	0.010	mg/L		09/30/13 07:45	10/04/13 06:04	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 06:04	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 06:04	1
Zinc	0.81	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 06:04	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 11:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 11:59	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000042	J	0.00020	0.000020	mg/L		09/30/13 16:00	10/01/13 12:42	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0083	mg/Kg	☼	09/19/13 13:45	09/20/13 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.15		0.200	0.200	SU			10/03/13 11:48	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-7

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63499-8
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/15/2013 3:52:40 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-8

Client Sample ID: 846D-26-B03

Lab Sample ID: 500-63499-30

Date Collected: 09/23/13 09:30

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 85.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0053		0.0053	0.0023	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Benzene	<0.0053		0.0053	0.00072	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Bromodichloromethane	<0.0053		0.0053	0.00091	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Carbon disulfide	<0.0053		0.0053	0.00079	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Carbon tetrachloride	<0.0053		0.0053	0.00096	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Chlorobenzene	<0.0053		0.0053	0.00053	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Chloroethane	<0.0053		0.0053	0.0014	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00074	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00069	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Dibromochloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
1,1-Dichloroethane	<0.0053		0.0053	0.00083	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
1,1-Dichloroethene	<0.0053		0.0053	0.00085	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
1,2-Dichloropropane	<0.0053		0.0053	0.00080	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00069	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00087	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Styrene	<0.0053		0.0053	0.00069	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Tetrachloroethene	<0.0053		0.0053	0.00080	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00072	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00094	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Trichloroethene	<0.0053		0.0053	0.00087	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Vinyl acetate	<0.0053		0.0053	0.00083	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	09/23/13 09:30	09/30/13 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/23/13 09:30	09/30/13 16:21	1
Dibromofluoromethane	101		75 - 120	09/23/13 09:30	09/30/13 16:21	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	09/23/13 09:30	09/30/13 16:21	1
Toluene-d8 (Surr)	97		75 - 122	09/23/13 09:30	09/30/13 16:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-8

Client Sample ID: 846D-26-B03

Lab Sample ID: 500-63499-30

Date Collected: 09/23/13 09:30

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Fluoranthene	0.017	J	0.037	0.015	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Pyrene	0.020	J	0.037	0.014	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Benzo[a]anthracene	0.012	J	0.037	0.0079	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-8

Client Sample ID: 846D-26-B03

Lab Sample ID: 500-63499-30

Date Collected: 09/23/13 09:30

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.037	0.0085	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Benzo[b]fluoranthene	0.022	J	0.037	0.0073	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Benzo[a]pyrene	0.013	J	0.037	0.0068	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	10/02/13 07:25	10/07/13 23:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		25 - 110				10/02/13 07:25	10/07/13 23:53	1
Phenol-d5	63		31 - 110				10/02/13 07:25	10/07/13 23:53	1
Nitrobenzene-d5	57		25 - 115				10/02/13 07:25	10/07/13 23:53	1
2-Fluorobiphenyl	59		25 - 119				10/02/13 07:25	10/07/13 23:53	1
2,4,6-Tribromophenol	77		35 - 137				10/02/13 07:25	10/07/13 23:53	1
Terphenyl-d14	120		36 - 134				10/02/13 07:25	10/07/13 23:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		11	1.0	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Arsenic	9.0		0.57	0.11	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Barium	88		0.57	0.061	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Beryllium	0.70		0.23	0.020	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Boron	3.0		2.8	0.12	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Cadmium	0.73		0.11	0.014	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Calcium	5700		11	3.1	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Chromium	16		0.57	0.066	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Cobalt	11		0.28	0.020	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Copper	20		0.57	0.050	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Iron	21000		11	4.7	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Lead	25		0.28	0.085	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Magnesium	4600		5.7	1.2	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Manganese	860		5.7	0.31	mg/Kg	☼	09/24/13 16:15	10/11/13 13:05	10
Nickel	19		0.57	0.056	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Potassium	1200		28	1.7	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Selenium	0.69		0.57	0.20	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Sodium	78		57	7.6	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Thallium	0.34	J	0.57	0.24	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Vanadium	24		0.28	0.042	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1
Zinc	55		1.1	0.23	mg/Kg	☼	09/24/13 16:15	10/10/13 14:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/14/13 09:45	10/14/13 21:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-8

Client Sample ID: 846D-26-B03

Lab Sample ID: 500-63499-30

Date Collected: 09/23/13 09:30

Matrix: Solid

Date Received: 09/24/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		10/07/13 09:00	10/08/13 23:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/07/13 09:00	10/08/13 23:13	1
Boron	1.9		0.10	0.050	mg/L		10/11/13 09:30	10/12/13 12:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/07/13 09:00	10/08/13 23:13	1
Chromium	0.011	J	0.025	0.010	mg/L		10/07/13 09:00	10/08/13 23:13	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/08/13 23:13	1
Iron	5.9		0.20	0.20	mg/L		10/07/13 09:00	10/08/13 23:13	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/07/13 09:00	10/08/13 23:13	1
Manganese	0.034		0.025	0.010	mg/L		10/07/13 09:00	10/08/13 23:13	1
Nickel	<0.025		0.025	0.010	mg/L		10/07/13 09:00	10/08/13 23:13	1
Selenium	<0.050		0.050	0.010	mg/L		10/07/13 09:00	10/08/13 23:13	1
Silver	<0.025		0.025	0.0050	mg/L		10/07/13 09:00	10/08/13 23:13	1
Zinc	0.90		0.10	0.020	mg/L		10/07/13 09:00	10/08/13 23:13	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/07/13 09:00	10/08/13 11:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/07/13 09:00	10/08/13 11:57	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/08/13 15:30	10/09/13 12:08	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.017	0.0082	mg/Kg	☆	09/25/13 15:45	09/26/13 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.17		0.200	0.200	SU			10/07/13 17:30	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-8

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US 6 / IL 7 Will + Cook Co. Project No.: IDOT2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: 1 of 1 Lab Job No.: 500-63499 Sample Temp: 3, 2, 3, 5, 3, 6 Matrix Key:
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other	
ANALYSES			
VOCs	SVOCs	BETX & MTBE	PNAs
Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals
PH	% Solids	Waste Characterization	Comments
30	8460-26-803	9/20/13 9:30 S	0-2
Date/Time	Date/Time	Date/Time	Date/Time
Relinquished by: <i>Richard Wright (AET)</i>	Date/Time: 9/23/13 3:20	Received by: <i>[Signature]</i>	Date/Time: 9-23-13 1520
Relinquished by: <i>[Signature]</i>	Date/Time: 9-23-13 1607	Received by: <i>[Signature]</i>	Date/Time: 9/24/13 0630
Relinquished by:	Date/Time:	Received by:	Date/Time:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14855 to 14927 149th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59865 Longitude: -87.98212
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59865 Longitude: -87.98212

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-27-B01 THROUGH -B04 WERE SAMPLED ADJACENT TO SITE NO. 846D-27. SEE FIGURES 6, 7, & 22, AND TABLE 3u OF THE REVISED PRELIMINARY SITE INVESTIGATION

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-63234-8 AND 500-63499-1

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

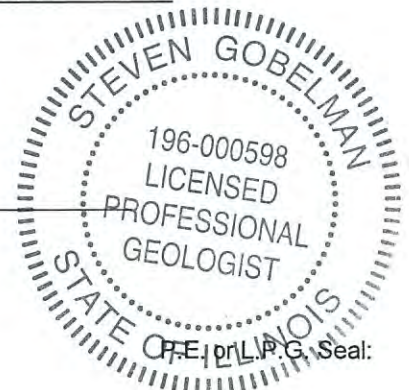
Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-27

Fairland

Sample ID	846D-27-B01	846D-27-B02	846D-27-B03	846D-27-B04									
Sample Depth (ft)	0-5	0-5	0-5	0-5									
Sample Date	9/18/2013	9/18/2013	9/18/2013	9/23/2013									
PID	0	0	0	0									
Sample pH	8.64	8.35	8.49	7.73									
Matrix	Soil	Soil	Soil	Soil									
Inorganic Compounds, Total (mg/kg)													
Arsenic	13	1,3	8.4	12	1,3	11	11.3	NA	NA	11.3	NA	13	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63234-8
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/10/2013 2:38:11 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-8

Client Sample ID: 846D-27-B01

Lab Sample ID: 500-63234-16

Date Collected: 09/18/13 11:55

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
1,1-Dichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	09/18/13 11:55	09/20/13 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/18/13 11:55	09/20/13 19:28	1
Dibromofluoromethane	97		75 - 120	09/18/13 11:55	09/20/13 19:28	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/18/13 11:55	09/20/13 19:28	1
Toluene-d8 (Surr)	96		75 - 122	09/18/13 11:55	09/20/13 19:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-8

Client Sample ID: 846D-27-B01

Lab Sample ID: 500-63234-16

Date Collected: 09/18/13 11:55

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-8

Client Sample ID: 846D-27-B01

Lab Sample ID: 500-63234-16

Date Collected: 09/18/13 11:55

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	09/20/13 07:23	10/04/13 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		25 - 110	09/20/13 07:23	10/04/13 16:37	1
Phenol-d5	57		31 - 110	09/20/13 07:23	10/04/13 16:37	1
Nitrobenzene-d5	49		25 - 115	09/20/13 07:23	10/04/13 16:37	1
2-Fluorobiphenyl	49		25 - 119	09/20/13 07:23	10/04/13 16:37	1
2,4,6-Tribromophenol	61		35 - 137	09/20/13 07:23	10/04/13 16:37	1
Terphenyl-d14	100		36 - 134	09/20/13 07:23	10/04/13 16:37	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00080	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
alpha-Chlordane	<0.0020		0.0020	0.00097	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
4,4'-DDD	<0.0020		0.0020	0.00038	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
delta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
Dieldrin	<0.0020		0.0020	0.00026	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
Endosulfan I	<0.0020		0.0020	0.00084	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
Endosulfan II	<0.0020		0.0020	0.00031	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
Endrin aldehyde	<0.0020		0.0020	0.00032	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
Endrin ketone	<0.0020		0.0020	0.00043	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
gamma-Chlordane	<0.0020		0.0020	0.00050	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
Heptachlor	<0.0020		0.0020	0.00081	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
Heptachlor epoxide	<0.0020		0.0020	0.00068	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
Methoxychlor	<0.0095		0.0095	0.00037	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1
Toxaphene	<0.019		0.019	0.0081	mg/Kg	☼	09/20/13 07:10	09/25/13 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		56 - 128	09/20/13 07:10	09/25/13 12:42	1
Tetrachloro-m-xylene	43	X	45 - 112	09/20/13 07:10	09/25/13 12:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-8

Client Sample ID: 846D-27-B01

Lab Sample ID: 500-63234-16

Date Collected: 09/18/13 11:55

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8000	B	11	1.0	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Arsenic	13		0.57	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Barium	36		0.57	0.061	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Beryllium	0.54		0.23	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Boron	7.1		2.8	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Cadmium	0.82		0.11	0.014	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Calcium	49000	B	11	3.1	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Chromium	13		0.57	0.066	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Cobalt	9.9		0.28	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Copper	24	B	0.57	0.050	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Iron	20000		11	4.7	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Lead	11	B	0.28	0.085	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Magnesium	25000	B	5.7	1.2	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Manganese	370		0.57	0.031	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Nickel	26	B	0.57	0.056	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Potassium	1800		28	1.7	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Sodium	440		57	7.6	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Thallium	0.43	J	0.57	0.24	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Vanadium	16	B	0.28	0.042	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1
Zinc	47		1.1	0.23	mg/Kg	☼	09/19/13 08:30	10/08/13 02:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 05:13	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 05:13	1
Manganese	0.50		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 05:13	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		09/30/13 07:45	10/04/13 06:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 06:10	1
Boron	1.7		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 06:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 06:10	1
Chromium	0.076		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 06:10	1
Cobalt	0.030		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 06:10	1
Iron	100		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 06:10	1
Lead	0.051		0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 06:10	1
Manganese	0.40		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 06:10	1
Nickel	0.098		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 06:10	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 06:10	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 06:10	1
Zinc	0.92	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 06:10	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/08/13 08:00	10/08/13 18:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-8

Client Sample ID: 846D-27-B01

Lab Sample ID: 500-63234-16

Date Collected: 09/18/13 11:55

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 12:02	1
Thallium	0.0026		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 12:02	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J	0.00020	0.000020	mg/L		09/30/13 16:00	10/01/13 12:44	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0087	mg/Kg	☼	09/19/13 13:45	09/20/13 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.64		0.200	0.200	SU			10/03/13 11:51	1
Percent Moisture	15		0.10	0.10	%			09/19/13 07:34	1
Percent Solids	85		0.10	0.10	%			09/19/13 07:34	1

Client Sample ID: 846D-27-B02

Lab Sample ID: 500-63234-17

Date Collected: 09/18/13 11:35

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 88.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0077		0.0043	0.0019	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Dibromochloromethane	<0.0043		0.0043	0.00076	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
1,1-Dichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Ethylbenzene	<0.0043		0.0043	0.00088	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00072	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-8

Client Sample ID: 846D-27-B02

Lab Sample ID: 500-63234-17

Date Collected: 09/18/13 11:35

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 88.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Trichloroethene	<0.0043		0.0043	0.00072	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	09/18/13 11:35	09/20/13 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/18/13 11:35	09/20/13 19:51	1
Dibromofluoromethane	98		75 - 120	09/18/13 11:35	09/20/13 19:51	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	09/18/13 11:35	09/20/13 19:51	1
Toluene-d8 (Surr)	96		75 - 122	09/18/13 11:35	09/20/13 19:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-8

Client Sample ID: 846D-27-B02

Lab Sample ID: 500-63234-17

Date Collected: 09/18/13 11:35

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/20/13 07:23	10/04/13 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		25 - 110	09/20/13 07:23	10/04/13 16:58	1
Phenol-d5	52		31 - 110	09/20/13 07:23	10/04/13 16:58	1
Nitrobenzene-d5	46		25 - 115	09/20/13 07:23	10/04/13 16:58	1
2-Fluorobiphenyl	49		25 - 119	09/20/13 07:23	10/04/13 16:58	1
2,4,6-Tribromophenol	54		35 - 137	09/20/13 07:23	10/04/13 16:58	1
Terphenyl-d14	91		36 - 134	09/20/13 07:23	10/04/13 16:58	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-8

Client Sample ID: 846D-27-B02

Lab Sample ID: 500-63234-17

Date Collected: 09/18/13 11:35

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 88.0

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
Endosulfan I	<0.0019		0.0019	0.00081	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
Methoxychlor	<0.0092		0.0092	0.00036	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
Toxaphene	<0.019		0.019	0.0078	mg/Kg	☼	09/20/13 07:10	09/25/13 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		56 - 128				09/20/13 07:10	09/25/13 13:02	1
Tetrachloro-m-xylene	50		45 - 112				09/20/13 07:10	09/25/13 13:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7900	B	11	1.0	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Arsenic	8.4		0.56	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Barium	39		0.56	0.060	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Beryllium	0.54		0.22	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Boron	6.8		2.8	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Cadmium	0.70		0.11	0.014	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Calcium	37000	B	11	3.0	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Chromium	13		0.56	0.065	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Cobalt	8.3		0.28	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Copper	24	B	0.56	0.050	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Iron	18000		11	4.6	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Lead	11	B	0.28	0.083	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Magnesium	21000	B	5.6	1.2	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Manganese	330		0.56	0.030	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Nickel	23	B	0.56	0.055	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Potassium	1600		28	1.7	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Sodium	130		56	7.5	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Thallium	0.49	J	0.56	0.24	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Vanadium	16	B	0.28	0.041	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1
Zinc	47		1.1	0.23	mg/Kg	☼	09/19/13 08:30	10/08/13 02:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.42		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 05:18	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 05:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-8

Client Sample ID: 846D-27-B02

Lab Sample ID: 500-63234-17

Date Collected: 09/18/13 11:35

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.92		0.50	0.010	mg/L		09/30/13 07:45	10/04/13 06:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 06:16	1
Boron	1.6		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 06:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 06:16	1
Chromium	0.032		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 06:16	1
Cobalt	0.0081	J	0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 06:16	1
Iron	31		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 06:16	1
Lead	0.016		0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 06:16	1
Manganese	0.11		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 06:16	1
Nickel	0.032		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 06:16	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 06:16	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 06:16	1
Zinc	0.75	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 06:16	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 12:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 12:06	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000020	J	0.00020	0.000020	mg/L		09/30/13 16:00	10/01/13 12:46	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.017	0.0082	mg/Kg	☼	09/19/13 13:45	09/20/13 10:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.35		0.200	0.200	SU			10/03/13 11:54	1
Percent Moisture	12		0.10	0.10	%			09/19/13 07:34	1
Percent Solids	88		0.10	0.10	%			09/19/13 07:34	1

Client Sample ID: 846D-27-B03

Lab Sample ID: 500-63234-18

Date Collected: 09/18/13 11:25

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0039		0.0039	0.0017	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Benzene	<0.0039		0.0039	0.00053	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Bromoform	<0.0039		0.0039	0.00089	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Bromomethane	<0.0039		0.0039	0.0012	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Carbon disulfide	<0.0039		0.0039	0.00058	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Carbon tetrachloride	<0.0039		0.0039	0.00070	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Chlorobenzene	<0.0039		0.0039	0.00039	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Chloroethane	<0.0039		0.0039	0.0010	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Chloroform	<0.0039		0.0039	0.00044	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Chloromethane	<0.0039		0.0039	0.00081	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-8

Client Sample ID: 846D-27-B03

Lab Sample ID: 500-63234-18

Date Collected: 09/18/13 11:25

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00055	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00051	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Dibromochloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
1,1-Dichloroethane	<0.0039		0.0039	0.00061	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
1,2-Dichloroethane	<0.0039		0.0039	0.00057	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
1,1,1-Dichloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
1,2-Dichloropropane	<0.0039		0.0039	0.00059	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.00051	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Ethylbenzene	<0.0039		0.0039	0.00078	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
2-Hexanone	<0.0039		0.0039	0.0011	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Methylene Chloride	<0.0039		0.0039	0.0010	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0010	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00064	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Styrene	<0.0039		0.0039	0.00051	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
1,1,1,2-Tetrachloroethane	<0.0039		0.0039	0.00078	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Tetrachloroethane	<0.0039		0.0039	0.00059	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Toluene	<0.0039		0.0039	0.00054	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00053	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.00069	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00053	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Trichloroethene	<0.0039		0.0039	0.00064	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Vinyl acetate	<0.0039		0.0039	0.00061	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Vinyl chloride	<0.0039		0.0039	0.00081	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1
Xylenes, Total	<0.0077		0.0077	0.00035	mg/Kg	☼	09/18/13 11:25	09/20/13 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/18/13 11:25	09/20/13 20:15	1
Dibromofluoromethane	97		75 - 120	09/18/13 11:25	09/20/13 20:15	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	09/18/13 11:25	09/20/13 20:15	1
Toluene-d8 (Surr)	96		75 - 122	09/18/13 11:25	09/20/13 20:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
2-Chlorophenol	<0.18		0.18	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
2,4-Dimethylphenol	<0.36		0.36	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-8

Client Sample ID: 846D-27-B03

Lab Sample ID: 500-63234-18

Date Collected: 09/18/13 11:25

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
2,4,5-Trichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
2-Nitrophenol	<0.36		0.36	0.058	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Fluorene	<0.036		0.036	0.0084	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Di-n-octyl phthalate	<0.18		0.18	0.075	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Benzo[k]fluoranthene	<0.036		0.036	0.0088	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1
3 & 4 Methylphenol	<0.18		0.18	0.070	mg/Kg	☼	09/20/13 07:23	10/04/13 17:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-8

Client Sample ID: 846D-27-B03

Lab Sample ID: 500-63234-18

Date Collected: 09/18/13 11:25

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		25 - 110	09/20/13 07:23	10/04/13 17:19	1
Phenol-d5	56		31 - 110	09/20/13 07:23	10/04/13 17:19	1
Nitrobenzene-d5	51		25 - 115	09/20/13 07:23	10/04/13 17:19	1
2-Fluorobiphenyl	50		25 - 119	09/20/13 07:23	10/04/13 17:19	1
2,4,6-Tribromophenol	57		35 - 137	09/20/13 07:23	10/04/13 17:19	1
Terphenyl-d14	95		36 - 134	09/20/13 07:23	10/04/13 17:19	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00079	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
alpha-Chlordane	<0.0019		0.0019	0.00096	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
beta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
4,4'-DDE	<0.0019		0.0019	0.00032	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
Endosulfan I	<0.0019		0.0019	0.00083	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
gamma-Chlordane	<0.0019		0.0019	0.00050	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
Heptachlor	<0.0019		0.0019	0.00080	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
Heptachlor epoxide	<0.0019		0.0019	0.00068	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
Methoxychlor	<0.0095		0.0095	0.00037	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1
Toxaphene	<0.019		0.019	0.0080	mg/Kg	☼	09/20/13 07:10	09/25/13 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		56 - 128	09/20/13 07:10	09/25/13 13:22	1
Tetrachloro-m-xylene	53		45 - 112	09/20/13 07:10	09/25/13 13:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8400	B	12	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Antimony	<1.2		1.2	0.46	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Arsenic	12		0.58	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Barium	43		0.58	0.062	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Beryllium	0.58		0.23	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Boron	6.7		2.9	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Cadmium	0.84		0.12	0.015	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Calcium	30000	B	12	3.1	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Chromium	14		0.58	0.067	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Cobalt	11		0.29	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Copper	39	B	0.58	0.051	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Iron	22000		12	4.7	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Lead	17	B	0.29	0.086	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Magnesium	19000	B	5.8	1.2	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-8

Client Sample ID: 846D-27-B03

Lab Sample ID: 500-63234-18

Date Collected: 09/18/13 11:25

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.9

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	340		0.58	0.031	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Nickel	31	B	0.58	0.057	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Potassium	1600		29	1.7	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Selenium	<0.58		0.58	0.20	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Sodium	270		58	7.7	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Thallium	0.64		0.58	0.24	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Vanadium	17	B	0.29	0.043	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1
Zinc	58		1.2	0.23	mg/Kg	☼	09/19/13 08:30	10/08/13 02:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 05:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 05:32	1
Manganese	0.86		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 05:32	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.86		0.50	0.010	mg/L		09/30/13 07:45	10/04/13 06:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 06:23	1
Boron	1.4		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 06:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 06:23	1
Chromium	0.055		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 06:23	1
Cobalt	0.015	J	0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 06:23	1
Iron	52		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 06:23	1
Lead	0.025		0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 06:23	1
Manganese	0.22		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 06:23	1
Nickel	0.058		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 06:23	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 06:23	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 06:23	1
Zinc	0.67	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 06:23	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 12:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 12:09	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00021		0.00020	0.000020	mg/L		09/30/13 16:00	10/01/13 12:52	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.018	0.0085	mg/Kg	☼	09/19/13 13:45	09/20/13 10:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.200	0.200	SU			10/03/13 11:57	1
Percent Moisture	14		0.10	0.10	%			09/19/13 07:34	1
Percent Solids	86		0.10	0.10	%			09/19/13 07:34	1

TestAmerica Chicago

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-8

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US6/IL7WLP & Cook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: 1 of 1 Lab Job No.: 500-63234 Sample Temp: 32.3, 5.3, 4 Matrix Key:													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other														
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
16	846D-27-B01	9/18	11:55	S	X	X			X		X	X	X	X		D-5
17	846D-27-B02	↓	11:35	S	X	X			X		X	X	X	X		D-5
18	846D-27-B03	↓	11:25	S	X	X			X		X	X	X	X		D-5
	846D-27-B04			S	X	X			X		X	X	X	X		
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>										
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>										
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>										

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63499-9
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/15/2013 3:53:14 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-9

Client Sample ID: 846D-27-B04

Lab Sample ID: 500-63499-31

Date Collected: 09/23/13 09:15

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 84.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
2-Butanone (MEK)	<0.0048		0.0048	0.0018	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Chloroform	<0.0048		0.0048	0.00056	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00064	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
1,1-Dichloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
1,1,1-Dichloroethane	<0.0048		0.0048	0.00078	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00064	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Ethylbenzene	<0.0048		0.0048	0.00098	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Styrene	<0.0048		0.0048	0.00064	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Toluene	<0.0048		0.0048	0.00068	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00087	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	09/23/13 09:15	09/30/13 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/23/13 09:15	09/30/13 16:44	1
Dibromofluoromethane	100		75 - 120	09/23/13 09:15	09/30/13 16:44	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/23/13 09:15	09/30/13 16:44	1
Toluene-d8 (Surr)	97		75 - 122	09/23/13 09:15	09/30/13 16:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-9

Client Sample ID: 846D-27-B04

Lab Sample ID: 500-63499-31

Date Collected: 09/23/13 09:15

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Fluoranthene	0.031	J	0.039	0.016	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Pyrene	0.031	J	0.039	0.014	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Benzo[a]anthracene	0.016	J	0.039	0.0082	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-9

Client Sample ID: 846D-27-B04

Lab Sample ID: 500-63499-31

Date Collected: 09/23/13 09:15

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.024	J	0.039	0.0088	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Benzo[b]fluoranthene	0.036	J	0.039	0.0076	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Benzo[k]fluoranthene	0.014	J	0.039	0.0093	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Benzo[a]pyrene	0.021	J	0.039	0.0071	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.039	0.013	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	10/02/13 07:25	10/08/13 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		25 - 110	10/02/13 07:25	10/08/13 00:12	1
Phenol-d5	59		31 - 110	10/02/13 07:25	10/08/13 00:12	1
Nitrobenzene-d5	53		25 - 115	10/02/13 07:25	10/08/13 00:12	1
2-Fluorobiphenyl	56		25 - 119	10/02/13 07:25	10/08/13 00:12	1
2,4,6-Tribromophenol	81		35 - 137	10/02/13 07:25	10/08/13 00:12	1
Terphenyl-d14	114		36 - 134	10/02/13 07:25	10/08/13 00:12	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00080	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
alpha-Chlordane	<0.0020		0.0020	0.00098	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
4,4'-DDD	<0.0020		0.0020	0.00038	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
Dieldrin	<0.0020		0.0020	0.00026	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
Endosulfan I	<0.0020		0.0020	0.00084	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
Endosulfan II	<0.0020		0.0020	0.00031	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
Endrin aldehyde	<0.0020		0.0020	0.00032	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
Heptachlor	<0.0020		0.0020	0.00081	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
Methoxychlor	<0.0096		0.0096	0.00037	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1
Toxaphene	<0.019		0.019	0.0081	mg/Kg	☼	10/02/13 18:42	10/04/13 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		56 - 128	10/02/13 18:42	10/04/13 14:34	1
Tetrachloro-m-xylene	52		45 - 112	10/02/13 18:42	10/04/13 14:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-9

Client Sample ID: 846D-27-B04

Lab Sample ID: 500-63499-31

Date Collected: 09/23/13 09:15

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 84.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		11	1.0	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Arsenic	11		0.56	0.11	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Barium	86		0.56	0.060	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Beryllium	0.86		0.22	0.020	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Boron	4.6		2.8	0.12	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Cadmium	0.75		0.11	0.014	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Calcium	2300		11	3.0	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Chromium	22		0.56	0.065	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Cobalt	10		0.28	0.020	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Copper	31		0.56	0.049	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Iron	28000		11	4.6	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Lead	16		0.28	0.083	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Magnesium	4200		5.6	1.1	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Manganese	440		0.56	0.030	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Nickel	31		0.56	0.055	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Potassium	1600		28	1.7	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Selenium	0.46	J	0.56	0.20	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Sodium	480		56	7.5	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Thallium	0.46	J	0.56	0.24	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Vanadium	25		0.28	0.041	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1
Zinc	63		1.1	0.23	mg/Kg	☼	09/24/13 16:15	10/10/13 14:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/14/13 09:45	10/14/13 21:27	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/14/13 09:45	10/14/13 21:27	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.16	J	0.50	0.010	mg/L		10/08/13 08:00	10/09/13 02:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/08/13 08:00	10/09/13 02:12	1
Boron	0.074	J	0.10	0.050	mg/L		10/08/13 08:00	10/09/13 02:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/08/13 08:00	10/09/13 02:12	1
Chromium	0.027		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 02:12	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/08/13 08:00	10/09/13 02:12	1
Iron	31		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 02:12	1
Lead	0.015		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 02:12	1
Manganese	0.12		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 02:12	1
Nickel	0.029		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 02:12	1
Selenium	<0.050		0.050	0.010	mg/L		10/08/13 08:00	10/09/13 02:12	1
Silver	<0.025		0.025	0.0050	mg/L		10/08/13 08:00	10/09/13 02:12	1
Zinc	0.10		0.10	0.020	mg/L		10/08/13 08:00	10/09/13 02:12	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/08/13 08:00	10/08/13 17:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/08/13 08:00	10/08/13 17:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-9

Client Sample ID: 846D-27-B04

Lab Sample ID: 500-63499-31

Date Collected: 09/23/13 09:15

Matrix: Solid

Date Received: 09/24/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000044	J	0.00020	0.000020	mg/L	—	10/08/13 17:30	10/09/13 11:21	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.019	0.0087	mg/Kg	☼	09/25/13 15:45	09/26/13 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.73		0.200	0.200	SU	—		10/07/13 17:35	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-9

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US 6/227 Will & Cook Co. Project No.: DOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: 1 of 1 Lab Job No.: 500-63499 Sample Temp: 32.3536 Matrix Key:													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other														
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
31	8460-27-804	9/23/13	9:15	S	X	X			X		X	X	X	X		0.5'
Relinquished by: <i>Kim A. Wright (AEI)</i>					Date/Time	Received by: <i>[Signature]</i>					Date/Time	9/23/13 3:20				
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>Mini Roots</i>					Date/Time	9/24/13 0630				
Relinquished by: <i>[Signature]</i>					Date/Time	Received by:					Date/Time					



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14830 to 14920 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59896 Longitude: -87.98110
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59896 Longitude: -87.98110

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 846D-28-B01 THROUGH -B07 WERE SAMPLED ADJACENT TO SITE NO. 846D-28. SEE FIGURES 6, 7, & 23, AND TABLE 3v OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-63074-1 & 500-62784-1

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

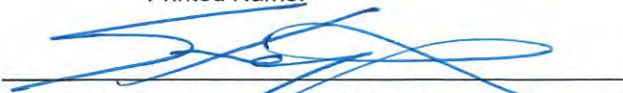
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

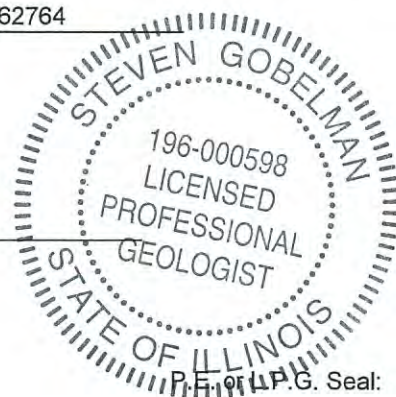
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 846D-28
Farmland**

Sample ID	846D-28-B01	846D-28-B02	846D-28-B03	846D-28-B03 DUP					
Sample Depth (ft)	0-6	0-6	0-6	0-6					
Sample Date	9/11/2013	9/11/2013	9/11/2013	9/11/2013					
PID	0	0	0	0					
Sample pH	7.06	7.74	7.77	7.71					
Matrix	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.									

Sample ID	846D-28-B04	846D-28-B05	846D-28-B06	846D-28-B07					
Sample Depth (ft)	0-6	0-6	0-6	0-6					
Sample Date	9/11/2013	9/11/2013	9/16/2013	9/16/2013					
PID	0	0	0	0					
Sample pH	8	8.51	8.63	8.76					
Matrix	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.									

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62784-1
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/2/2013 1:32:00 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B01

Lab Sample ID: 500-62784-1

Date Collected: 09/11/13 11:05

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 77.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0041	J	0.0047	0.0020	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Bromodichloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Chloroform	<0.0047		0.0047	0.00055	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Chloromethane	<0.0047		0.0047	0.0010	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00077	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00065	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Vinyl acetate	<0.0047		0.0047	0.00075	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Vinyl chloride	<0.0047		0.0047	0.0010	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	09/11/13 11:05	09/13/13 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/11/13 11:05	09/13/13 12:17	1
Dibromofluoromethane	102		75 - 120	09/11/13 11:05	09/13/13 12:17	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/11/13 11:05	09/13/13 12:17	1
Toluene-d8 (Surr)	99		75 - 122	09/11/13 11:05	09/13/13 12:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.068	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
1,3-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
1,4-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B01

Lab Sample ID: 500-62784-1

Date Collected: 09/11/13 11:05

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 77.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
2-Methylphenol	<0.21		0.21	0.057	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.054	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Hexachloroethane	<0.21		0.21	0.046	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
2-Chlorophenol	<0.21		0.21	0.061	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.047	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Hexachlorobutadiene	<0.21		0.21	0.056	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Naphthalene	<0.042		0.042	0.0082	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
4-Chloroaniline	<0.86		0.86	0.13	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
2,4,6-Trichlorophenol	<0.42		0.42	0.054	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Hexachlorocyclopentadiene	<0.86		0.86	0.20	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
2-Methylnaphthalene	<0.21		0.21	0.055	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
2-Nitroaniline	<0.21		0.21	0.077	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
2-Chloronaphthalene	<0.21		0.21	0.048	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
2,6-Dinitrotoluene	<0.21		0.21	0.051	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
2-Nitrophenol	<0.42		0.42	0.067	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
3-Nitroaniline	<0.42		0.42	0.082	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
2,4-Dinitrophenol	<0.86		0.86	0.22	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Acenaphthylene	<0.042		0.042	0.0098	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Dibenzofuran	<0.21		0.21	0.051	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
4-Nitrophenol	<0.86		0.86	0.23	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Fluorene	<0.042		0.042	0.0097	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
4-Nitroaniline	<0.42		0.42	0.088	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Hexachlorobenzene	<0.086		0.086	0.0084	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.067	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Pentachlorophenol	<0.86		0.86	0.22	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
N-Nitrosodiphenylamine	<0.21		0.21	0.058	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
4,6-Dinitro-2-methylphenol	<0.42 *		0.42	0.10	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Phenanthrene	<0.042		0.042	0.018	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Anthracene	<0.042		0.042	0.010	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Carbazole	<0.21		0.21	0.060	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Di-n-butyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Fluoranthene	<0.042		0.042	0.017	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Pyrene	<0.042		0.042	0.015	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Butyl benzyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Benzo[a]anthracene	<0.042		0.042	0.0089	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B01

Lab Sample ID: 500-62784-1

Date Collected: 09/11/13 11:05

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 77.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.0096	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.036	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.057	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Di-n-octyl phthalate	<0.21		0.21	0.087	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Benzo[b]fluoranthene	<0.042		0.042	0.0083	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Benzo[k]fluoranthene	<0.042		0.042	0.010	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Benzo[a]pyrene	<0.042		0.042	0.0078	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.014	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Dibenz(a,h)anthracene	<0.042		0.042	0.012	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
3 & 4 Methylphenol	<0.21		0.21	0.081	mg/Kg	☼	09/18/13 17:53	09/24/13 15:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		25 - 110				09/18/13 17:53	09/24/13 15:43	1
Phenol-d5	45		31 - 110				09/18/13 17:53	09/24/13 15:43	1
Nitrobenzene-d5	41		25 - 115				09/18/13 17:53	09/24/13 15:43	1
2-Fluorobiphenyl	42		25 - 119				09/18/13 17:53	09/24/13 15:43	1
2,4,6-Tribromophenol	61		35 - 137				09/18/13 17:53	09/24/13 15:43	1
Terphenyl-d14	77		36 - 134				09/18/13 17:53	09/24/13 15:43	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0022		0.0022	0.00088	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
alpha-BHC	<0.0022		0.0022	0.00054	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
alpha-Chlordane	<0.0022		0.0022	0.0011	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
beta-BHC	<0.0022		0.0022	0.00066	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
4,4'-DDD	<0.0022		0.0022	0.00042	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
4,4'-DDE	<0.0022		0.0022	0.00035	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
4,4'-DDT	<0.0022		0.0022	0.0011	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
delta-BHC	<0.0022		0.0022	0.00067	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
Dieldrin	<0.0022		0.0022	0.00029	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
Endosulfan I	<0.0022		0.0022	0.00093	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
Endosulfan II	<0.0022		0.0022	0.00034	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
Endosulfan sulfate	<0.0022		0.0022	0.00039	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
Endrin	<0.0022		0.0022	0.00029	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
Endrin aldehyde	<0.0022		0.0022	0.00036	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
Endrin ketone	<0.0022		0.0022	0.00048	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
gamma-BHC (Lindane)	<0.0022		0.0022	0.00046	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
gamma-Chlordane	<0.0022		0.0022	0.00056	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
Heptachlor	<0.0022		0.0022	0.00089	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
Heptachlor epoxide	<0.0022		0.0022	0.00075	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
Methoxychlor	<0.011		0.011	0.00041	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
Toxaphene	<0.021		0.021	0.0089	mg/Kg	☼	09/18/13 07:30	09/25/13 15:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		56 - 128				09/18/13 07:30	09/25/13 15:39	1
Tetrachloro-m-xylene	54		45 - 112				09/18/13 07:30	09/25/13 15:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B01

Lab Sample ID: 500-62784-1

Date Collected: 09/11/13 11:05

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 77.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000	B	12	1.1	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Antimony	<1.2		1.2	0.50	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Arsenic	9.1		0.62	0.12	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Barium	100		0.62	0.067	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Beryllium	0.74		0.25	0.022	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Boron	3.6		3.1	0.13	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Cadmium	0.53	B	0.12	0.016	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Calcium	4100	B	12	3.4	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Chromium	23		0.62	0.072	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Cobalt	18		0.31	0.022	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Copper	37		0.62	0.055	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Iron	35000	B	12	5.1	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Lead	18	B	0.31	0.093	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Magnesium	6300	B	6.2	1.3	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Manganese	730	B V	0.62	0.034	mg/Kg	☼	09/11/13 16:30	09/19/13 13:05	1
Nickel	53		0.62	0.061	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Potassium	1600	B	31	1.9	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Selenium	0.42	J	0.62	0.22	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Sodium	71		62	8.4	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Thallium	0.59	J	0.62	0.26	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Vanadium	26		0.31	0.046	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1
Zinc	110		1.2	0.25	mg/Kg	☼	09/11/13 16:30	09/19/13 04:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.40		0.20	0.20	mg/L		09/27/13 08:00	09/29/13 16:27	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27	J B	0.50	0.010	mg/L		09/23/13 09:00	09/25/13 18:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/23/13 09:00	09/25/13 18:02	1
Boron	0.37	B	0.20	0.050	mg/L		09/23/13 09:00	09/25/13 18:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/23/13 09:00	09/25/13 18:02	1
Chromium	<0.025		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:02	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:02	1
Iron	6.9		0.20	0.20	mg/L		09/23/13 09:00	09/25/13 18:02	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/23/13 09:00	09/25/13 18:02	1
Manganese	0.051		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:02	1
Nickel	<0.025		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:02	1
Selenium	<0.050		0.050	0.010	mg/L		09/23/13 09:00	09/25/13 18:02	1
Silver	<0.025		0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:02	1
Zinc	0.15	B	0.10	0.020	mg/L		09/23/13 09:00	09/25/13 18:02	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/23/13 09:00	09/24/13 12:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/23/13 09:00	09/24/13 12:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B01

Lab Sample ID: 500-62784-1

Date Collected: 09/11/13 11:05

Matrix: Solid

Date Received: 09/11/13 13:20

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/23/13 15:15	09/24/13 11:48	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.021	0.0097	mg/Kg	*	09/12/13 15:00	09/13/13 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.06		0.200	0.200	SU			09/20/13 13:05	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B02

Lab Sample ID: 500-62784-2

Date Collected: 09/11/13 11:00

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0018	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Benzene	<0.0043		0.0043	0.00058	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Bromoform	<0.0043		0.0043	0.00098	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Carbon tetrachloride	<0.0043		0.0043	0.00077	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Chloromethane	<0.0043		0.0043	0.00089	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Dibromochloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
1,1-Dichloroethane	<0.0043		0.0043	0.00067	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Ethylbenzene	<0.0043		0.0043	0.00086	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Methylene Chloride	<0.0043		0.0043	0.0011	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00070	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
1,1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00086	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Tetrachloroethene	<0.0043		0.0043	0.00065	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00076	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Trichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Vinyl chloride	<0.0043		0.0043	0.00089	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1
Xylenes, Total	<0.0085		0.0085	0.00039	mg/Kg	☼	09/11/13 11:00	09/13/13 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/11/13 11:00	09/13/13 12:40	1
Dibromofluoromethane	97		75 - 120	09/11/13 11:00	09/13/13 12:40	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/11/13 11:00	09/13/13 12:40	1
Toluene-d8 (Surr)	97		75 - 122	09/11/13 11:00	09/13/13 12:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B02

Lab Sample ID: 500-62784-2

Date Collected: 09/11/13 11:00

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
4,6-Dinitro-2-methylphenol	<0.37 *		0.37	0.090	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B02

Lab Sample ID: 500-62784-2

Date Collected: 09/11/13 11:00

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/18/13 17:53	09/25/13 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	09/18/13 17:53	09/25/13 16:14	1
Phenol-d5	35		31 - 110	09/18/13 17:53	09/25/13 16:14	1
Nitrobenzene-d5	45		25 - 115	09/18/13 17:53	09/25/13 16:14	1
2-Fluorobiphenyl	45		25 - 119	09/18/13 17:53	09/25/13 16:14	1
2,4,6-Tribromophenol	36		35 - 137	09/18/13 17:53	09/25/13 16:14	1
Terphenyl-d14	83		36 - 134	09/18/13 17:53	09/25/13 16:14	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00081	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
alpha-Chlordane	<0.0020		0.0020	0.00098	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
Endosulfan I	<0.0020		0.0020	0.00085	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
Heptachlor	<0.0020		0.0020	0.00082	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
Methoxychlor	<0.0097		0.0097	0.00038	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1
Toxaphene	<0.019		0.019	0.0082	mg/Kg	☼	09/18/13 07:30	09/25/13 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	72		56 - 128	09/18/13 07:30	09/25/13 16:37	1
Tetrachloro-m-xylene	59		45 - 112	09/18/13 07:30	09/25/13 16:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B02

Lab Sample ID: 500-62784-2

Date Collected: 09/11/13 11:00

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 84.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000	B	11	1.0	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Antimony	0.81	J	1.1	0.45	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Arsenic	6.7		0.56	0.11	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Barium	58		0.56	0.060	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Beryllium	0.59		0.22	0.020	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Boron	8.4		2.8	0.12	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Cadmium	0.24	B	0.11	0.014	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Calcium	65000	B	110	30	mg/Kg	☼	09/11/13 16:30	09/19/13 06:12	10
Chromium	18		0.56	0.065	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Cobalt	24		0.28	0.020	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Copper	19		0.56	0.050	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Iron	20000	B	11	4.6	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Lead	14	B	0.28	0.083	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Magnesium	22000	B	5.6	1.2	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Manganese	720	B	0.56	0.030	mg/Kg	☼	09/11/13 16:30	09/19/13 13:36	1
Nickel	61		0.56	0.055	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Potassium	2100	B	28	1.7	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Selenium	0.25	J	0.56	0.20	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Sodium	210		56	7.5	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Thallium	0.41	J	0.56	0.24	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Vanadium	22		0.28	0.041	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1
Zinc	56		1.1	0.23	mg/Kg	☼	09/11/13 16:30	09/19/13 04:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/27/13 08:00	09/29/13 16:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J B	0.50	0.010	mg/L		09/23/13 09:00	09/25/13 18:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/23/13 09:00	09/25/13 18:13	1
Boron	0.28	B	0.20	0.050	mg/L		09/23/13 09:00	09/25/13 18:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/23/13 09:00	09/25/13 18:13	1
Chromium	0.019	J	0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:13	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:13	1
Iron	15		0.20	0.20	mg/L		09/23/13 09:00	09/25/13 18:13	1
Lead	0.0064	J	0.0075	0.0050	mg/L		09/23/13 09:00	09/25/13 18:13	1
Manganese	0.11		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:13	1
Nickel	0.014	J	0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:13	1
Selenium	<0.050		0.050	0.010	mg/L		09/23/13 09:00	09/25/13 18:13	1
Silver	<0.025		0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:13	1
Zinc	0.13	B	0.10	0.020	mg/L		09/23/13 09:00	09/25/13 18:13	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/23/13 09:00	09/24/13 12:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/23/13 09:00	09/24/13 12:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B02

Lab Sample ID: 500-62784-2

Date Collected: 09/11/13 11:00

Matrix: Solid

Date Received: 09/11/13 13:20

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000035	J	0.00020	0.000020	mg/L	—	09/23/13 15:15	09/24/13 11:49	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.018	0.0086	mg/Kg	☼	09/12/13 15:00	09/13/13 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.74		0.200	0.200	SU	—		09/20/13 13:11	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B03

Lab Sample ID: 500-62784-3

Date Collected: 09/11/13 10:40

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0094		0.0040	0.0017	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Bromoform	<0.0040		0.0040	0.00093	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Chloromethane	<0.0040		0.0040	0.00085	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
1,1-Dichloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
1,1,1-Dichloroethane	<0.0040		0.0040	0.00065	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Ethylbenzene	<0.0040		0.0040	0.00081	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0011	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00067	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Tetrachloroethene	<0.0040		0.0040	0.00062	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Vinyl chloride	<0.0040		0.0040	0.00085	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1
Xylenes, Total	<0.0081		0.0081	0.00036	mg/Kg	☼	09/11/13 10:40	09/13/13 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/11/13 10:40	09/13/13 13:03	1
Dibromofluoromethane	103		75 - 120	09/11/13 10:40	09/13/13 13:03	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/11/13 10:40	09/13/13 13:03	1
Toluene-d8 (Surr)	95		75 - 122	09/11/13 10:40	09/13/13 13:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B03

Lab Sample ID: 500-62784-3

Date Collected: 09/11/13 10:40

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Hexachlorobenzene	<0.075		0.075	0.0074	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
4,6-Dinitro-2-methylphenol	<0.37 *		0.37	0.091	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B03

Lab Sample ID: 500-62784-3

Date Collected: 09/11/13 10:40

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
Benzo[g,h,i]perylene	0.014	J	0.037	0.013	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/18/13 17:53	09/24/13 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		25 - 110	09/18/13 17:53	09/24/13 16:26	1
Phenol-d5	51		31 - 110	09/18/13 17:53	09/24/13 16:26	1
Nitrobenzene-d5	45		25 - 115	09/18/13 17:53	09/24/13 16:26	1
2-Fluorobiphenyl	54		25 - 119	09/18/13 17:53	09/24/13 16:26	1
2,4,6-Tribromophenol	70		35 - 137	09/18/13 17:53	09/24/13 16:26	1
Terphenyl-d14	93		36 - 134	09/18/13 17:53	09/24/13 16:26	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00079	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
alpha-Chlordane	<0.0019		0.0019	0.00096	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
beta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
Endosulfan I	<0.0019		0.0019	0.00083	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
gamma-Chlordane	<0.0019		0.0019	0.00050	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
Heptachlor	<0.0019		0.0019	0.00079	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
Methoxychlor	<0.0094		0.0094	0.00037	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1
Toxaphene	<0.019		0.019	0.0080	mg/Kg	☼	09/18/13 07:30	09/25/13 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		56 - 128	09/18/13 07:30	09/25/13 16:57	1
Tetrachloro-m-xylene	57		45 - 112	09/18/13 07:30	09/25/13 16:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B03

Lab Sample ID: 500-62784-3

Date Collected: 09/11/13 10:40

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 85.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8800	B	12	1.1	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Antimony	0.55	J	1.2	0.47	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Arsenic	4.6		0.58	0.12	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Barium	36		0.58	0.062	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Beryllium	0.43		0.23	0.020	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Boron	7.6		2.9	0.12	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Cadmium	0.21	B	0.12	0.015	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Calcium	65000	B	120	31	mg/Kg	☼	09/11/13 16:30	09/19/13 06:16	10
Chromium	15		0.58	0.067	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Cobalt	6.4		0.29	0.021	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Copper	21		0.58	0.051	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Iron	17000	B	12	4.8	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Lead	14	B	0.29	0.086	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Magnesium	25000	B	5.8	1.2	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Manganese	240	B	0.58	0.031	mg/Kg	☼	09/11/13 16:30	09/19/13 13:41	1
Nickel	23		0.58	0.057	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Potassium	1800	B	29	1.7	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Selenium	0.25	J	0.58	0.21	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Sodium	220		58	7.8	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Thallium	<0.58		0.58	0.24	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Vanadium	17		0.29	0.043	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1
Zinc	57		1.2	0.23	mg/Kg	☼	09/11/13 16:30	09/19/13 04:49	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52	B	0.50	0.010	mg/L		09/23/13 09:00	09/25/13 18:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/23/13 09:00	09/25/13 18:17	1
Boron	0.65	B	0.20	0.050	mg/L		09/23/13 09:00	09/25/13 18:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/23/13 09:00	09/25/13 18:17	1
Chromium	<0.025		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:17	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:17	1
Iron	0.29		0.20	0.20	mg/L		09/23/13 09:00	09/25/13 18:17	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/23/13 09:00	09/25/13 18:17	1
Manganese	<0.025		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:17	1
Nickel	<0.025		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:17	1
Selenium	<0.050		0.050	0.010	mg/L		09/23/13 09:00	09/25/13 18:17	1
Silver	<0.025		0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:17	1
Zinc	0.24	B	0.10	0.020	mg/L		09/23/13 09:00	09/25/13 18:17	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/23/13 09:00	09/24/13 12:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/23/13 09:00	09/24/13 12:33	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/23/13 15:15	09/24/13 11:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B03

Lab Sample ID: 500-62784-3

Date Collected: 09/11/13 10:40

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 85.5

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0089	mg/Kg	☼	09/12/13 15:00	09/13/13 12:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77		0.200	0.200	SU			09/20/13 13:17	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B03 Dup

Lab Sample ID: 500-62784-4

Date Collected: 09/11/13 10:45

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 84.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.019		0.0044	0.0019	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
1,2-Dichloropropane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00078	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	09/11/13 10:45	09/13/13 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	09/11/13 10:45	09/13/13 13:26	1
Dibromofluoromethane	104		75 - 120	09/11/13 10:45	09/13/13 13:26	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/11/13 10:45	09/13/13 13:26	1
Toluene-d8 (Surr)	96		75 - 122	09/11/13 10:45	09/13/13 13:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B03 Dup

Lab Sample ID: 500-62784-4

Date Collected: 09/11/13 10:45

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
4,6-Dinitro-2-methylphenol	<0.39	*	0.39	0.095	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B03 Dup

Lab Sample ID: 500-62784-4

Date Collected: 09/11/13 10:45

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
Benzo[g,h,i]perylene	0.014	J	0.039	0.013	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	09/18/13 17:53	09/25/13 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		25 - 110	09/18/13 17:53	09/25/13 16:35	1
Phenol-d5	44		31 - 110	09/18/13 17:53	09/25/13 16:35	1
Nitrobenzene-d5	49		25 - 115	09/18/13 17:53	09/25/13 16:35	1
2-Fluorobiphenyl	49		25 - 119	09/18/13 17:53	09/25/13 16:35	1
2,4,6-Tribromophenol	64		35 - 137	09/18/13 17:53	09/25/13 16:35	1
Terphenyl-d14	103		36 - 134	09/18/13 17:53	09/25/13 16:35	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00080	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
alpha-Chlordane	<0.0020		0.0020	0.00098	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
4,4'-DDD	<0.0020		0.0020	0.00038	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
Dieldrin	<0.0020		0.0020	0.00026	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
Endosulfan I	<0.0020		0.0020	0.00084	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
Endosulfan II	<0.0020		0.0020	0.00031	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
Endrin aldehyde	<0.0020		0.0020	0.00032	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
Heptachlor	<0.0020		0.0020	0.00081	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
Methoxychlor	<0.0096		0.0096	0.00037	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1
Toxaphene	<0.019		0.019	0.0081	mg/Kg	☼	09/18/13 07:30	09/25/13 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	55	X	56 - 128	09/18/13 07:30	09/25/13 17:36	1
Tetrachloro-m-xylene	51		45 - 112	09/18/13 07:30	09/25/13 17:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B03 Dup

Lab Sample ID: 500-62784-4

Date Collected: 09/11/13 10:45

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 84.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300	B	12	1.1	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Antimony	0.58	J	1.2	0.48	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Arsenic	6.7		0.59	0.12	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Barium	42		0.59	0.063	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Beryllium	0.49		0.24	0.021	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Boron	7.9		3.0	0.12	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Cadmium	0.24	B	0.12	0.015	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Calcium	83000	B	120	32	mg/Kg	☼	09/11/13 16:30	09/19/13 06:20	10
Chromium	16		0.59	0.069	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Cobalt	12		0.30	0.021	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Copper	22		0.59	0.052	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Iron	18000	B	12	4.9	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Lead	13	B	0.30	0.088	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Magnesium	26000	B	5.9	1.2	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Manganese	340	B	0.59	0.032	mg/Kg	☼	09/11/13 16:30	09/19/13 13:46	1
Nickel	32		0.59	0.058	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Potassium	1900	B	30	1.8	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Selenium	0.71		0.59	0.21	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Sodium	270		59	7.9	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Thallium	0.26	J	0.59	0.25	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Vanadium	19		0.30	0.044	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1
Zinc	60		1.2	0.24	mg/Kg	☼	09/11/13 16:30	09/19/13 05:08	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36	J B	0.50	0.010	mg/L		09/23/13 09:00	09/25/13 18:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/23/13 09:00	09/25/13 18:21	1
Boron	0.71	B	0.20	0.050	mg/L		09/23/13 09:00	09/25/13 18:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/23/13 09:00	09/25/13 18:21	1
Chromium	<0.025		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:21	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:21	1
Iron	<0.20		0.20	0.20	mg/L		09/23/13 09:00	09/25/13 18:21	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/23/13 09:00	09/25/13 18:21	1
Manganese	<0.025		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:21	1
Nickel	<0.025		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:21	1
Selenium	<0.050		0.050	0.010	mg/L		09/23/13 09:00	09/25/13 18:21	1
Silver	<0.025		0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:21	1
Zinc	0.25	B	0.10	0.020	mg/L		09/23/13 09:00	09/25/13 18:21	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/23/13 09:00	09/24/13 12:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/23/13 09:00	09/24/13 12:36	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/23/13 15:15	09/24/13 11:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B03 Dup

Lab Sample ID: 500-62784-4

Date Collected: 09/11/13 10:45

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 84.3

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.017	0.0081	mg/Kg	☼	09/12/13 15:00	09/13/13 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.71		0.200	0.200	SU			09/20/13 13:23	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B04

Lab Sample ID: 500-62784-5

Date Collected: 09/11/13 10:30

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Toluene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	09/11/13 10:30	09/13/13 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/11/13 10:30	09/13/13 13:49	1
Dibromofluoromethane	104		75 - 120	09/11/13 10:30	09/13/13 13:49	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/11/13 10:30	09/13/13 13:49	1
Toluene-d8 (Surr)	96		75 - 122	09/11/13 10:30	09/13/13 13:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B04

Lab Sample ID: 500-62784-5

Date Collected: 09/11/13 10:30

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
2,4-Dichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
2,4,6-Trichlorophenol	<0.38		0.38	0.047	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
4-Nitroaniline	<0.38		0.38	0.077	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
4,6-Dinitro-2-methylphenol	<0.38 *		0.38	0.092	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Fluoranthene	<0.038		0.038	0.015	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B04

Lab Sample ID: 500-62784-5

Date Collected: 09/11/13 10:30

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0085	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Benzo[b]fluoranthene	<0.038		0.038	0.0073	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/18/13 17:53	09/25/13 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110	09/18/13 17:53	09/25/13 16:55	1
Phenol-d5	39		31 - 110	09/18/13 17:53	09/25/13 16:55	1
Nitrobenzene-d5	48		25 - 115	09/18/13 17:53	09/25/13 16:55	1
2-Fluorobiphenyl	42		25 - 119	09/18/13 17:53	09/25/13 16:55	1
2,4,6-Tribromophenol	51		35 - 137	09/18/13 17:53	09/25/13 16:55	1
Terphenyl-d14	90		36 - 134	09/18/13 17:53	09/25/13 16:55	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00080	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
alpha-Chlordane	<0.0020		0.0020	0.00098	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
Endosulfan I	<0.0020		0.0020	0.00085	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
Endosulfan II	<0.0020		0.0020	0.00031	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
Heptachlor	<0.0020		0.0020	0.00081	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
Methoxychlor	<0.0096		0.0096	0.00038	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1
Toxaphene	<0.019		0.019	0.0082	mg/Kg	☼	09/18/13 07:30	09/25/13 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	60		56 - 128	09/18/13 07:30	09/25/13 17:56	1
Tetrachloro-m-xylene	47		45 - 112	09/18/13 07:30	09/25/13 17:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B04

Lab Sample ID: 500-62784-5

Date Collected: 09/11/13 10:30

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 84.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	B	12	1.1	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Antimony	0.64	J	1.2	0.47	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Arsenic	11		0.59	0.12	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Barium	70		0.59	0.063	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Beryllium	0.59		0.24	0.021	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Boron	7.8		2.9	0.12	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Cadmium	0.22	B	0.12	0.015	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Calcium	57000	B	120	32	mg/Kg	☼	09/11/13 16:30	09/19/13 06:24	10
Chromium	19		0.59	0.068	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Cobalt	18		0.29	0.021	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Copper	21		0.59	0.052	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Iron	24000	B	12	4.8	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Lead	16	B	0.29	0.088	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Magnesium	21000	B	5.9	1.2	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Manganese	220	B	0.59	0.032	mg/Kg	☼	09/11/13 16:30	09/19/13 13:51	1
Nickel	34		0.59	0.058	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Potassium	2200	B	29	1.8	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Selenium	0.43	J	0.59	0.21	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Sodium	340		59	7.9	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Thallium	0.75		0.59	0.25	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Vanadium	23		0.29	0.044	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1
Zinc	74		1.2	0.24	mg/Kg	☼	09/11/13 16:30	09/19/13 05:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/27/13 08:00	09/29/13 16:40	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/27/13 08:00	09/29/13 16:40	1
Manganese	1.1		0.025	0.010	mg/L		09/27/13 08:00	09/29/13 16:40	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J B	0.50	0.010	mg/L		09/23/13 09:00	09/25/13 18:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/23/13 09:00	09/25/13 18:25	1
Boron	0.94	B	0.20	0.050	mg/L		09/23/13 09:00	09/25/13 18:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/23/13 09:00	09/25/13 18:25	1
Chromium	0.032		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:25	1
Cobalt	0.0058	J	0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:25	1
Iron	26		0.20	0.20	mg/L		09/23/13 09:00	09/25/13 18:25	1
Lead	0.012		0.0075	0.0050	mg/L		09/23/13 09:00	09/25/13 18:25	1
Manganese	0.15		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:25	1
Nickel	0.026		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:25	1
Selenium	<0.050		0.050	0.010	mg/L		09/23/13 09:00	09/25/13 18:25	1
Silver	<0.025		0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:25	1
Zinc	0.40	B	0.10	0.020	mg/L		09/23/13 09:00	09/25/13 18:25	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/23/13 09:00	09/24/13 12:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/23/13 09:00	09/24/13 12:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B04

Lab Sample ID: 500-62784-5

Date Collected: 09/11/13 10:30

Matrix: Solid

Date Received: 09/11/13 13:20

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000042	J	0.00020	0.000020	mg/L	—	09/23/13 15:15	09/24/13 11:59	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.017	0.0080	mg/Kg	☼	09/12/13 15:00	09/13/13 12:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.00		0.200	0.200	SU	—		09/20/13 13:29	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B05

Lab Sample ID: 500-62784-6

Date Collected: 09/11/13 08:35

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0082		0.0044	0.0019	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	09/11/13 08:35	09/13/13 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/11/13 08:35	09/13/13 14:11	1
Dibromofluoromethane	104		75 - 120	09/11/13 08:35	09/13/13 14:11	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/11/13 08:35	09/13/13 14:11	1
Toluene-d8 (Surr)	95		75 - 122	09/11/13 08:35	09/13/13 14:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B05

Lab Sample ID: 500-62784-6

Date Collected: 09/11/13 08:35

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
2-Chlorophenol	<0.18		0.18	0.053	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
2,4-Dimethylphenol	<0.36		0.36	0.12	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
2,4,5-Trichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
2-Nitrophenol	<0.36		0.36	0.058	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Fluorene	<0.036		0.036	0.0084	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
4,6-Dinitro-2-methylphenol	<0.36 *		0.36	0.089	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B05

Lab Sample ID: 500-62784-6

Date Collected: 09/11/13 08:35

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Di-n-octyl phthalate	<0.18		0.18	0.075	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Benzo[k]fluoranthene	<0.036		0.036	0.0088	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1
3 & 4 Methylphenol	<0.18		0.18	0.070	mg/Kg	☼	09/18/13 17:53	09/24/13 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		25 - 110	09/18/13 17:53	09/24/13 17:52	1
Phenol-d5	51		31 - 110	09/18/13 17:53	09/24/13 17:52	1
Nitrobenzene-d5	50		25 - 115	09/18/13 17:53	09/24/13 17:52	1
2-Fluorobiphenyl	54		25 - 119	09/18/13 17:53	09/24/13 17:52	1
2,4,6-Tribromophenol	68		35 - 137	09/18/13 17:53	09/24/13 17:52	1
Terphenyl-d14	87		36 - 134	09/18/13 17:53	09/24/13 17:52	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
alpha-Chlordane	<0.0019		0.0019	0.00095	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
4,4'-DDT	<0.0019		0.0019	0.00099	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
Endosulfan I	<0.0019		0.0019	0.00083	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
Heptachlor	<0.0019		0.0019	0.00079	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
Methoxychlor	<0.0094		0.0094	0.00037	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	09/18/13 07:30	09/25/13 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		56 - 128	09/18/13 07:30	09/25/13 18:15	1
Tetrachloro-m-xylene	46		45 - 112	09/18/13 07:30	09/25/13 18:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B05

Lab Sample ID: 500-62784-6

Date Collected: 09/11/13 08:35

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 85.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9400	B	11	1.0	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Antimony	0.61	J	1.1	0.45	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Arsenic	7.2		0.56	0.11	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Barium	39		0.56	0.060	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Beryllium	0.47		0.22	0.020	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Boron	7.7		2.8	0.12	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Cadmium	0.26	B	0.11	0.014	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Calcium	65000	B	110	30	mg/Kg	☼	09/11/13 16:30	09/19/13 06:28	10
Chromium	15		0.56	0.065	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Cobalt	15		0.28	0.020	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Copper	20		0.56	0.050	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Iron	18000	B	11	4.6	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Lead	14	B	0.28	0.083	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Magnesium	25000	B	5.6	1.2	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Manganese	450	B	0.56	0.030	mg/Kg	☼	09/11/13 16:30	09/19/13 13:56	1
Nickel	36		0.56	0.055	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Potassium	1800	B	28	1.7	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Selenium	0.72		0.56	0.20	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Sodium	190		56	7.5	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Thallium	0.39	J	0.56	0.24	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Vanadium	17		0.28	0.041	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1
Zinc	61		1.1	0.23	mg/Kg	☼	09/11/13 16:30	09/19/13 05:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/27/13 08:00	09/29/13 16:46	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/27/13 08:00	09/29/13 16:46	1
Manganese	0.51		0.025	0.010	mg/L		09/27/13 08:00	09/29/13 16:46	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53	B	0.50	0.010	mg/L		09/23/13 09:00	09/25/13 18:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/23/13 09:00	09/25/13 18:29	1
Boron	0.69	B	0.20	0.050	mg/L		09/23/13 09:00	09/25/13 18:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/23/13 09:00	09/25/13 18:29	1
Chromium	0.065		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:29	1
Cobalt	0.018	J	0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:29	1
Iron	64		0.20	0.20	mg/L		09/23/13 09:00	09/25/13 18:29	1
Lead	0.029		0.0075	0.0050	mg/L		09/23/13 09:00	09/25/13 18:29	1
Manganese	0.26		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:29	1
Nickel	0.068		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:29	1
Selenium	<0.050		0.050	0.010	mg/L		09/23/13 09:00	09/25/13 18:29	1
Silver	<0.025		0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:29	1
Zinc	0.47	B	0.10	0.020	mg/L		09/23/13 09:00	09/25/13 18:29	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/23/13 09:00	09/24/13 12:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/23/13 09:00	09/24/13 12:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Client Sample ID: 846D-28-B05

Lab Sample ID: 500-62784-6

Date Collected: 09/11/13 08:35

Matrix: Solid

Date Received: 09/11/13 13:20

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000085	J	0.00020	0.000020	mg/L	—	09/23/13 15:15	09/24/13 12:01	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.017	0.0081	mg/Kg	☼	09/12/13 15:00	09/13/13 12:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.51		0.200	0.200	SU	—		09/20/13 13:35	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
V	Serial Dilution exceeds the control limits
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

500-62784 COC

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711
217-787-2334
Contact: Colleen Grey
email: cgrey@andrews-eng.com

Laboratory
Lab: Test America - Chicago
Address: 2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200
Contact: Dick Wright
email: richard.wright@testamericainc.com

Project Name: US6/IL7 Wilder Cook Co.
Project No.: IDOT 2013-023
TAT: 15 BD 10 BD 5 BD 2 BD Other
AEZ

COC No.: 1 of 1
Lab Job No.: 500-62784
Sample Temp: 4.5

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.
* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Sampler:

Matrix Key:
W: Water
S: Soil
SL: Sludge
S: Sediment
L: Leachate
DW: Drinking Water
OL: Oil
O: Other

ANALYSES		VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization
1	846D-28-B01	X	X			X		X	X	X	X	
2	846D-28-B02											
3	846D-28-B03											
4	846D-28-B03 DUP											
5	846D-28-B04											
6	846D-28-B05											
	846D-28-B06											
	846D-28-B07	X	X			X		X	X	X	X	

Relinquished by:	<u>John A. Myers (AGT)</u>	Date/Time	<u>9/11/13 1:17</u>	Received by:	<u>[Signature]</u>	Date/Time	<u>9/11/13 1320</u>
Relinquished by:		Date/Time		Received by:		Date/Time	
Relinquished by:		Date/Time		Received by:		Date/Time	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63074-1
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/8/2013 3:43:55 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-1

Client Sample ID: 846D-28-B06

Lab Sample ID: 500-63074-1

Date Collected: 09/16/13 10:50

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 86.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0090		0.0044	0.0019	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
1,2-Dichloropropane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00078	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	09/16/13 10:50	09/18/13 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	09/16/13 10:50	09/18/13 13:30	1
Dibromofluoromethane	90		75 - 120	09/16/13 10:50	09/18/13 13:30	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/16/13 10:50	09/18/13 13:30	1
Toluene-d8 (Surr)	100		75 - 122	09/16/13 10:50	09/18/13 13:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-1

Client Sample ID: 846D-28-B06

Lab Sample ID: 500-63074-1

Date Collected: 09/16/13 10:50

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-1

Client Sample ID: 846D-28-B06

Lab Sample ID: 500-63074-1

Date Collected: 09/16/13 10:50

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/19/13 07:16	09/27/13 10:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		25 - 110	09/19/13 07:16	09/27/13 10:20	1
Phenol-d5	73		31 - 110	09/19/13 07:16	09/27/13 10:20	1
Nitrobenzene-d5	71		25 - 115	09/19/13 07:16	09/27/13 10:20	1
2-Fluorobiphenyl	67		25 - 119	09/19/13 07:16	09/27/13 10:20	1
2,4,6-Tribromophenol	84		35 - 137	09/19/13 07:16	09/27/13 10:20	1
Terphenyl-d14	75		36 - 134	09/19/13 07:16	09/27/13 10:20	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
alpha-Chlordane	<0.0019		0.0019	0.00095	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
4,4'-DDT	<0.0019		0.0019	0.00099	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
Endosulfan I	<0.0019		0.0019	0.00082	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
Heptachlor	<0.0019		0.0019	0.00079	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	09/18/13 07:30	09/25/13 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		56 - 128	09/18/13 07:30	09/25/13 19:53	1
Tetrachloro-m-xylene	47		45 - 112	09/18/13 07:30	09/25/13 19:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-1

Client Sample ID: 846D-28-B06

Lab Sample ID: 500-63074-1

Date Collected: 09/16/13 10:50

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 86.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7500	B	11	1.0	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Antimony	0.68	J	1.1	0.46	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Arsenic	7.8		0.57	0.11	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Barium	39		0.57	0.061	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Beryllium	0.44		0.23	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Boron	6.5	B	2.8	0.12	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Cadmium	0.26	B	0.11	0.014	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Calcium	80000	B	110	31	mg/Kg	☼	09/17/13 08:00	09/18/13 17:58	10
Chromium	14		0.57	0.066	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Cobalt	11		0.28	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Copper	22	B	0.57	0.051	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Iron	18000		11	4.7	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Lead	15		0.28	0.085	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Magnesium	30000		5.7	1.2	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Manganese	340		0.57	0.031	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Nickel	28		0.57	0.056	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Potassium	1300	B	28	1.7	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Selenium	0.30	J	0.57	0.20	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Sodium	110	B	57	7.6	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Thallium	0.38	J	0.57	0.24	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Vanadium	14		0.28	0.042	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1
Zinc	60		1.1	0.23	mg/Kg	☼	09/17/13 08:00	09/17/13 19:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/06/13 14:30	10/07/13 13:19	1
Chromium	<0.025		0.025	0.010	mg/L		10/06/13 14:30	10/07/13 13:19	1
Iron	<0.20		0.20	0.20	mg/L		10/06/13 14:30	10/07/13 13:19	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/06/13 14:30	10/07/13 13:19	1
Manganese	0.54		0.025	0.010	mg/L		10/06/13 14:30	10/07/13 13:19	1
Nickel	<0.025		0.025	0.010	mg/L		10/06/13 14:30	10/07/13 13:19	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J B	0.50	0.010	mg/L		09/27/13 08:00	10/03/13 00:40	1
Beryllium	0.0056		0.0040	0.0040	mg/L		09/27/13 08:00	10/03/13 00:40	1
Boron	0.19	B	0.10	0.050	mg/L		09/27/13 08:00	10/03/13 00:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/13 08:00	10/03/13 00:40	1
Chromium	0.11		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 00:40	1
Cobalt	0.049		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 00:40	1
Iron	130		0.20	0.20	mg/L		09/27/13 08:00	10/03/13 00:40	1
Lead	0.058		0.0075	0.0050	mg/L		09/27/13 08:00	10/03/13 00:40	1
Manganese	0.56		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 00:40	1
Nickel	0.15		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 00:40	1
Selenium	<0.050		0.050	0.010	mg/L		09/27/13 08:00	10/03/13 00:40	1
Silver	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 00:40	1
Zinc	0.43	B	0.10	0.020	mg/L		09/27/13 08:00	10/03/13 00:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-1

Client Sample ID: 846D-28-B06

Lab Sample ID: 500-63074-1

Date Collected: 09/16/13 10:50

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/06/13 14:30	10/07/13 14:37	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/27/13 08:00	09/30/13 11:07	1
Thallium	0.0051		0.0020	0.0020	mg/L		09/27/13 08:00	09/30/13 11:07	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00023		0.00020	0.000020	mg/L		09/27/13 16:10	09/30/13 10:35	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0089	mg/Kg	☼	09/17/13 13:45	09/18/13 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.63		0.200	0.200	SU			10/01/13 15:40	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-1

Client Sample ID: 846D-28-B07

Lab Sample ID: 500-63074-2

Date Collected: 09/16/13 11:25

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0045		0.0041	0.0018	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Ethylbenzene	<0.0041		0.0041	0.00082	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00067	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00082	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	09/16/13 11:25	09/18/13 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	09/16/13 11:25	09/18/13 13:53	1
Dibromofluoromethane	92		75 - 120	09/16/13 11:25	09/18/13 13:53	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 134	09/16/13 11:25	09/18/13 13:53	1
Toluene-d8 (Surr)	99		75 - 122	09/16/13 11:25	09/18/13 13:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-1

Client Sample ID: 846D-28-B07

Lab Sample ID: 500-63074-2

Date Collected: 09/16/13 11:25

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-1

Client Sample ID: 846D-28-B07

Lab Sample ID: 500-63074-2

Date Collected: 09/16/13 11:25

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/19/13 07:16	09/27/13 10:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		25 - 110				09/19/13 07:16	09/27/13 10:43	1
Phenol-d5	62		31 - 110				09/19/13 07:16	09/27/13 10:43	1
Nitrobenzene-d5	59		25 - 115				09/19/13 07:16	09/27/13 10:43	1
2-Fluorobiphenyl	58		25 - 119				09/19/13 07:16	09/27/13 10:43	1
2,4,6-Tribromophenol	68		35 - 137				09/19/13 07:16	09/27/13 10:43	1
Terphenyl-d14	68		36 - 134				09/19/13 07:16	09/27/13 10:43	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00080	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
alpha-Chlordane	<0.0020		0.0020	0.00098	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
Endosulfan I	<0.0020		0.0020	0.00085	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
Endosulfan II	<0.0020		0.0020	0.00031	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
Heptachlor	<0.0020		0.0020	0.00081	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
Methoxychlor	<0.0096		0.0096	0.00038	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
Toxaphene	<0.019		0.019	0.0081	mg/Kg	☼	09/18/13 07:30	09/25/13 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	63		56 - 128				09/18/13 07:30	09/25/13 20:13	1
Tetrachloro-m-xylene	47		45 - 112				09/18/13 07:30	09/25/13 20:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-1

Client Sample ID: 846D-28-B07

Lab Sample ID: 500-63074-2

Date Collected: 09/16/13 11:25

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 85.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6900	B	11	1.0	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Antimony	0.45	J	1.1	0.44	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Arsenic	7.8		0.55	0.11	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Barium	33		0.55	0.059	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Beryllium	0.40		0.22	0.019	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Boron	6.5	B	2.7	0.12	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Cadmium	0.27	B	0.11	0.014	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Calcium	79000	B	110	30	mg/Kg	☼	09/17/13 08:00	09/18/13 18:43	10
Chromium	12		0.55	0.064	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Cobalt	7.9		0.27	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Copper	24	B	0.55	0.049	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Iron	16000		11	4.5	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Lead	13		0.27	0.082	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Magnesium	25000		5.5	1.1	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Manganese	280		0.55	0.030	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Nickel	24		0.55	0.054	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Potassium	1300	B	27	1.7	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Sodium	91	B	55	7.4	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Thallium	0.30	J	0.55	0.23	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Vanadium	13		0.27	0.041	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1
Zinc	53		1.1	0.22	mg/Kg	☼	09/17/13 08:00	09/17/13 20:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/06/13 14:30	10/07/13 13:44	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/06/13 14:30	10/07/13 13:44	1
Manganese	0.45		0.025	0.010	mg/L		10/06/13 14:30	10/07/13 13:44	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	B	0.50	0.010	mg/L		09/27/13 08:00	10/03/13 00:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/13 08:00	10/03/13 00:46	1
Boron	1.9	B	0.10	0.050	mg/L		09/27/13 08:00	10/03/13 00:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/13 08:00	10/03/13 00:46	1
Chromium	0.033		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 00:46	1
Cobalt	0.011	J	0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 00:46	1
Iron	31		0.20	0.20	mg/L		09/27/13 08:00	10/03/13 00:46	1
Lead	0.016		0.0075	0.0050	mg/L		09/27/13 08:00	10/03/13 00:46	1
Manganese	0.15		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 00:46	1
Nickel	0.035		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 00:46	1
Selenium	<0.050		0.050	0.010	mg/L		09/27/13 08:00	10/03/13 00:46	1
Silver	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 00:46	1
Zinc	0.80	B	0.10	0.020	mg/L		09/27/13 08:00	10/03/13 00:46	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/27/13 08:00	09/30/13 11:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/27/13 08:00	09/30/13 11:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-1

Client Sample ID: 846D-28-B07

Lab Sample ID: 500-63074-2

Date Collected: 09/16/13 11:25

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/27/13 16:10	09/30/13 10:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0086	mg/Kg	☼	09/17/13 13:45	09/18/13 09:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.76		0.200	0.200	SU			10/01/13 15:38	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14853 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59871 Longitude: -87.98025
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59871 Longitude: -87.98025

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-29-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-29. SEE FIGURE 7 AND TABLE 3w OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-63234-9

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/15/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63234-9
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/10/2013 2:38:28 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-9

Client Sample ID: 846D-29-B01

Lab Sample ID: 500-63234-19

Date Collected: 09/18/13 11:15

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 88.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Benzene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Chloromethane	<0.0041		0.0041	0.00087	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
1,1-Dichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
1,2-Dichloropropane	<0.0041		0.0041	0.00063	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Vinyl chloride	<0.0041		0.0041	0.00087	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1
Xylenes, Total	<0.0083		0.0083	0.00037	mg/Kg	☼	09/18/13 11:15	09/20/13 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/18/13 11:15	09/20/13 20:37	1
Dibromofluoromethane	100		75 - 120	09/18/13 11:15	09/20/13 20:37	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/18/13 11:15	09/20/13 20:37	1
Toluene-d8 (Surr)	95		75 - 122	09/18/13 11:15	09/20/13 20:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-9

Client Sample ID: 846D-29-B01

Lab Sample ID: 500-63234-19

Date Collected: 09/18/13 11:15

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-9

Client Sample ID: 846D-29-B01

Lab Sample ID: 500-63234-19

Date Collected: 09/18/13 11:15

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0081	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	09/20/13 07:23	10/04/13 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		25 - 110	09/20/13 07:23	10/04/13 17:41	1
Phenol-d5	45		31 - 110	09/20/13 07:23	10/04/13 17:41	1
Nitrobenzene-d5	41		25 - 115	09/20/13 07:23	10/04/13 17:41	1
2-Fluorobiphenyl	42		25 - 119	09/20/13 07:23	10/04/13 17:41	1
2,4,6-Tribromophenol	56		35 - 137	09/20/13 07:23	10/04/13 17:41	1
Terphenyl-d14	90		36 - 134	09/20/13 07:23	10/04/13 17:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9000	B	11	1.0	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Arsenic	7.8		0.54	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Barium	49		0.54	0.058	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Beryllium	0.59		0.22	0.019	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Boron	7.5		2.7	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Cadmium	0.70		0.11	0.014	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Calcium	48000	B	11	2.9	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Chromium	14		0.54	0.063	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Cobalt	10		0.27	0.019	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Copper	22	B	0.54	0.048	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Iron	17000		11	4.5	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Lead	11	B	0.27	0.081	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Magnesium	22000	B	5.4	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Manganese	410		0.54	0.030	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Nickel	26	B	0.54	0.053	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Potassium	1700		27	1.6	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Sodium	230		54	7.3	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Thallium	0.35	J	0.54	0.23	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Vanadium	18	B	0.27	0.040	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1
Zinc	41		1.1	0.22	mg/Kg	☼	09/19/13 08:30	10/08/13 03:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/08/13 08:00	10/09/13 05:37	1
Chromium	<0.025		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 05:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-9

Client Sample ID: 846D-29-B01

Lab Sample ID: 500-63234-19

Date Collected: 09/18/13 11:15

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 05:37	1
Lead	0.0077		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 05:37	1
Manganese	0.38		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 05:37	1
Nickel	<0.025		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 05:37	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		09/30/13 07:45	10/04/13 06:29	1
Beryllium	0.0054		0.0040	0.0040	mg/L		09/30/13 07:45	10/04/13 06:29	1
Boron	1.6		0.10	0.050	mg/L		09/30/13 07:45	10/04/13 06:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/04/13 06:29	1
Chromium	0.10		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 06:29	1
Cobalt	0.032		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 06:29	1
Iron	120		0.20	0.20	mg/L		09/30/13 07:45	10/04/13 06:29	1
Lead	0.064		0.0075	0.0050	mg/L		09/30/13 07:45	10/04/13 06:29	1
Manganese	0.40		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 06:29	1
Nickel	0.14		0.025	0.010	mg/L		09/30/13 07:45	10/04/13 06:29	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/04/13 06:29	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/04/13 06:29	1
Zinc	0.93	B	0.10	0.020	mg/L		09/30/13 07:45	10/04/13 06:29	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/08/13 08:00	10/08/13 18:19	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 12:12	1
Thallium	0.0045		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 12:12	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00015	J	0.00020	0.000020	mg/L		09/30/13 16:00	10/01/13 12:54	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0086	mg/Kg	☼	09/19/13 13:45	09/20/13 10:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.85		0.200	0.200	SU			10/03/13 11:59	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-9

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14831 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59872 Longitude: -87.97858
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59872 Longitude: -87.97858

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-30-B01 THROUGH -B04 WERE SAMPLED ADJACENT TO ISGS SITE NO. 846D-30. SEE FIGURES 7 & 22, AND TABLE 3x OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NO.: 500-63234-10

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

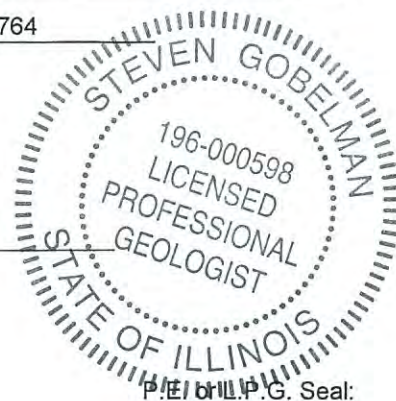
Steven Gobelman

Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

11/13/11

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-30

Harris Bank

Sample ID	846D-30-B01	846D-30-B02	846D-30-B03	846D-30-B04						
Sample Depth (ft)	0-5	0-5	0-5	0-5						
Sample Date	9/18/2013	9/18/2013	9/18/2013	9/18/2013						
PID	0	0	0	0						
Sample pH	8.3	8.32	8.4	8.38						
Matrix	Soil	Soil	Soil	Soil						
¹ Most Stringent MAC ² Outside a Populated Area MAC ³ Populated non-Metropolitan Statistical Area MAC ⁴ Within Chicago Corporate Limits MAC ⁵ Metropolitan Statistical Area MAC ⁶ Class I Soil TCLP/SPLP Comparisons Only										
No Contaminants of Concern Noted.										

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63234-10
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/10/2013 2:39:00 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B01

Lab Sample ID: 500-63234-20

Date Collected: 09/18/13 10:50

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 82.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	09/18/13 10:50	09/20/13 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	09/18/13 10:50	09/20/13 21:01	1
Dibromofluoromethane	97		75 - 120	09/18/13 10:50	09/20/13 21:01	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/18/13 10:50	09/20/13 21:01	1
Toluene-d8 (Surr)	97		75 - 122	09/18/13 10:50	09/20/13 21:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B01

Lab Sample ID: 500-63234-20

Date Collected: 09/18/13 10:50

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B01

Lab Sample ID: 500-63234-20

Date Collected: 09/18/13 10:50

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0090	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Benzo[b]fluoranthene	0.010	J	0.039	0.0077	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Benzo[k]fluoranthene	<0.039		0.039	0.0095	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	09/20/13 07:23	10/04/13 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		25 - 110	09/20/13 07:23	10/04/13 18:02	1
Phenol-d5	46		31 - 110	09/20/13 07:23	10/04/13 18:02	1
Nitrobenzene-d5	43		25 - 115	09/20/13 07:23	10/04/13 18:02	1
2-Fluorobiphenyl	41		25 - 119	09/20/13 07:23	10/04/13 18:02	1
2,4,6-Tribromophenol	53		35 - 137	09/20/13 07:23	10/04/13 18:02	1
Terphenyl-d14	95		36 - 134	09/20/13 07:23	10/04/13 18:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100	B	11	1.0	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Arsenic	7.9		0.57	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Barium	48		0.57	0.061	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Beryllium	0.60		0.23	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Boron	6.8		2.8	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Cadmium	0.79		0.11	0.014	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Calcium	53000	B	11	3.1	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Chromium	15		0.57	0.066	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Cobalt	10		0.28	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Copper	25	B	0.57	0.051	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Iron	18000		11	4.7	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Lead	11	B	0.28	0.085	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Magnesium	21000	B	5.7	1.2	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Manganese	420		0.57	0.031	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Nickel	28	B	0.57	0.056	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Potassium	1600		28	1.7	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Sodium	180		57	7.6	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Thallium	0.25	J	0.57	0.24	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Vanadium	18	B	0.28	0.042	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1
Zinc	44		1.1	0.23	mg/Kg	☼	09/19/13 08:30	10/08/13 03:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 05:42	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 05:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B01

Lab Sample ID: 500-63234-20

Date Collected: 09/18/13 10:50

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.45		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 05:42	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		09/30/13 07:45	10/03/13 05:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/03/13 05:07	1
Boron	1.7		0.10	0.050	mg/L		09/30/13 07:45	10/03/13 05:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/03/13 05:07	1
Chromium	0.068		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 05:07	1
Cobalt	0.015	J	0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 05:07	1
Iron	61		0.20	0.20	mg/L		09/30/13 07:45	10/03/13 05:07	1
Lead	0.028		0.0075	0.0050	mg/L		09/30/13 07:45	10/03/13 05:07	1
Manganese	0.25		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 05:07	1
Nickel	0.066		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 05:07	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/03/13 05:07	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 05:07	1
Zinc	0.82		0.10	0.020	mg/L		09/30/13 07:45	10/03/13 05:07	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 12:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 12:33	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000020	mg/L		10/01/13 16:00	10/02/13 09:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0090	mg/Kg	☼	09/19/13 13:45	09/20/13 10:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.200	0.200	SU			10/03/13 12:02	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B02

Lab Sample ID: 500-63234-21

Date Collected: 09/18/13 10:40

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Bromodichloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Bromoform	<0.0042		0.0042	0.00098	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Carbon tetrachloride	<0.0042		0.0042	0.00077	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Chloroform	<0.0042		0.0042	0.00049	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Chloromethane	<0.0042		0.0042	0.00089	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00060	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00056	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Dibromochloromethane	<0.0042		0.0042	0.00074	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00069	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00056	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Ethylbenzene	<0.0042		0.0042	0.00086	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00070	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Styrene	<0.0042		0.0042	0.00056	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Tetrachloroethene	<0.0042		0.0042	0.00065	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00076	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00058	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Trichloroethene	<0.0042		0.0042	0.00070	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Vinyl acetate	<0.0042		0.0042	0.00067	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Vinyl chloride	<0.0042		0.0042	0.00089	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1
Xylenes, Total	<0.0085		0.0085	0.00038	mg/Kg	☼	09/18/13 10:40	09/20/13 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/18/13 10:40	09/20/13 21:23	1
Dibromofluoromethane	98		75 - 120	09/18/13 10:40	09/20/13 21:23	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	09/18/13 10:40	09/20/13 21:23	1
Toluene-d8 (Surr)	95		75 - 122	09/18/13 10:40	09/20/13 21:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B02

Lab Sample ID: 500-63234-21

Date Collected: 09/18/13 10:40

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
2-Chlorophenol	<0.18		0.18	0.053	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Acenaphthylene	<0.037		0.037	0.0084	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
4-Nitroaniline	<0.37		0.37	0.075	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Anthracene	<0.037		0.037	0.0086	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B02

Lab Sample ID: 500-63234-21

Date Collected: 09/18/13 10:40

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Di-n-octyl phthalate	<0.18		0.18	0.075	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Benzo[b]fluoranthene	<0.037		0.037	0.0071	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1
3 & 4 Methylphenol	<0.18		0.18	0.070	mg/Kg	☼	09/19/13 18:30	09/27/13 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		25 - 110	09/19/13 18:30	09/27/13 19:47	1
Phenol-d5	70		31 - 110	09/19/13 18:30	09/27/13 19:47	1
Nitrobenzene-d5	70		25 - 115	09/19/13 18:30	09/27/13 19:47	1
2-Fluorobiphenyl	65		25 - 119	09/19/13 18:30	09/27/13 19:47	1
2,4,6-Tribromophenol	65		35 - 137	09/19/13 18:30	09/27/13 19:47	1
Terphenyl-d14	72		36 - 134	09/19/13 18:30	09/27/13 19:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		11	0.97	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Antimony	<1.1		1.1	0.42	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Arsenic	6.2		0.53	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Barium	47		0.53	0.057	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Beryllium	0.61		0.21	0.019	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Boron	9.0		2.6	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Cadmium	0.75		0.11	0.013	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Calcium	75000		110	29	mg/Kg	☼	09/19/13 08:30	10/08/13 13:51	10
Chromium	16		0.53	0.061	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Cobalt	6.5		0.26	0.019	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Copper	18		0.53	0.047	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Iron	17000		11	4.3	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Lead	8.6		0.26	0.079	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Magnesium	23000		5.3	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Manganese	240		0.53	0.029	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Nickel	19		0.53	0.052	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Potassium	2200		26	1.6	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Sodium	160		53	7.1	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Thallium	0.27 J		0.53	0.22	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Vanadium	19		0.26	0.039	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1
Zinc	40		1.1	0.21	mg/Kg	☼	09/19/13 08:30	10/08/13 03:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 05:47	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 05:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B02

Lab Sample ID: 500-63234-21

Date Collected: 09/18/13 10:40

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.18		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 05:47	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		09/30/13 07:45	10/03/13 05:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/03/13 05:47	1
Boron	1.7		0.10	0.050	mg/L		09/30/13 07:45	10/03/13 05:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/03/13 05:47	1
Chromium	0.058		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 05:47	1
Cobalt	0.015	J	0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 05:47	1
Iron	54		0.20	0.20	mg/L		09/30/13 07:45	10/03/13 05:47	1
Lead	0.024		0.0075	0.0050	mg/L		09/30/13 07:45	10/03/13 05:47	1
Manganese	0.22		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 05:47	1
Nickel	0.054		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 05:47	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/03/13 05:47	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 05:47	1
Zinc	0.81		0.10	0.020	mg/L		09/30/13 07:45	10/03/13 05:47	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 12:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 12:46	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J	0.00020	0.000020	mg/L		10/01/13 16:00	10/02/13 09:43	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0090	mg/Kg	☼	09/19/13 13:45	09/20/13 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU			10/03/13 12:05	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B03

Lab Sample ID: 500-63234-22

Date Collected: 09/18/13 10:30

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0038		0.0038	0.0016	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Benzene	<0.0038		0.0038	0.00052	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Bromodichloromethane	<0.0038		0.0038	0.00065	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Bromoform	<0.0038		0.0038	0.00087	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Bromomethane	<0.0038		0.0038	0.0011	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Carbon disulfide	<0.0038		0.0038	0.00056	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Carbon tetrachloride	<0.0038		0.0038	0.00068	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Chlorobenzene	<0.0038		0.0038	0.00038	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Chloroethane	<0.0038		0.0038	0.0010	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Chloroform	<0.0038		0.0038	0.00043	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Chloromethane	<0.0038		0.0038	0.00079	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00053	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00049	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Dibromochloromethane	<0.0038		0.0038	0.00065	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
1,1-Dichloroethane	<0.0038		0.0038	0.00060	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
1,2-Dichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
1,1-Dichloroethene	<0.0038		0.0038	0.00061	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
1,2-Dichloropropane	<0.0038		0.0038	0.00057	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.00049	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Ethylbenzene	<0.0038		0.0038	0.00076	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
2-Hexanone	<0.0038		0.0038	0.0011	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Methylene Chloride	<0.0038		0.0038	0.0010	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00099	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00062	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Styrene	<0.0038		0.0038	0.00049	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00076	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Tetrachloroethene	<0.0038		0.0038	0.00057	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Toluene	<0.0038		0.0038	0.00053	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00052	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.00067	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00051	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Trichloroethene	<0.0038		0.0038	0.00062	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Vinyl acetate	<0.0038		0.0038	0.00059	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Vinyl chloride	<0.0038		0.0038	0.00079	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1
Xylenes, Total	<0.0075		0.0075	0.00034	mg/Kg	☼	09/18/13 10:30	09/20/13 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/18/13 10:30	09/20/13 21:46	1
Dibromofluoromethane	98		75 - 120	09/18/13 10:30	09/20/13 21:46	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/18/13 10:30	09/20/13 21:46	1
Toluene-d8 (Surr)	96		75 - 122	09/18/13 10:30	09/20/13 21:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B03

Lab Sample ID: 500-63234-22

Date Collected: 09/18/13 10:30

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B03

Lab Sample ID: 500-63234-22

Date Collected: 09/18/13 10:30

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/19/13 18:30	09/27/13 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		25 - 110	09/19/13 18:30	09/27/13 20:09	1
Phenol-d5	80		31 - 110	09/19/13 18:30	09/27/13 20:09	1
Nitrobenzene-d5	81		25 - 115	09/19/13 18:30	09/27/13 20:09	1
2-Fluorobiphenyl	75		25 - 119	09/19/13 18:30	09/27/13 20:09	1
2,4,6-Tribromophenol	65		35 - 137	09/19/13 18:30	09/27/13 20:09	1
Terphenyl-d14	79		36 - 134	09/19/13 18:30	09/27/13 20:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9000		12	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Arsenic	7.6		0.58	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Barium	44		0.58	0.062	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Beryllium	0.57		0.23	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Boron	8.7		2.9	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Cadmium	0.95		0.12	0.015	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Calcium	51000		12	3.1	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Chromium	14		0.58	0.067	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Cobalt	7.6		0.29	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Copper	21		0.58	0.051	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Iron	17000		12	4.8	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Lead	11		0.29	0.086	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Magnesium	24000		5.8	1.2	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Manganese	300		0.58	0.031	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Nickel	20		0.58	0.057	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Potassium	2000		29	1.7	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Sodium	140		58	7.8	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Thallium	0.26 J		0.58	0.24	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Vanadium	18		0.29	0.043	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1
Zinc	63		1.2	0.23	mg/Kg	☼	09/19/13 08:30	10/08/13 04:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 00:12	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 00:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B03

Lab Sample ID: 500-63234-22

Date Collected: 09/18/13 10:30

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.33		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 00:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.010	mg/L		09/30/13 07:45	10/03/13 05:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/03/13 05:53	1
Boron	1.6		0.10	0.050	mg/L		09/30/13 07:45	10/03/13 05:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/03/13 05:53	1
Chromium	0.059		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 05:53	1
Cobalt	0.014	J	0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 05:53	1
Iron	55		0.20	0.20	mg/L		09/30/13 07:45	10/03/13 05:53	1
Lead	0.026		0.0075	0.0050	mg/L		09/30/13 07:45	10/03/13 05:53	1
Manganese	0.21		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 05:53	1
Nickel	0.056		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 05:53	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/03/13 05:53	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 05:53	1
Zinc	0.75		0.10	0.020	mg/L		09/30/13 07:45	10/03/13 05:53	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 12:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 12:50	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000082	J	0.00020	0.000020	mg/L		10/01/13 16:00	10/02/13 09:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0084	mg/Kg	☼	09/19/13 13:45	09/20/13 10:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.40		0.200	0.200	SU			10/03/13 12:07	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B04

Lab Sample ID: 500-63234-23

Date Collected: 09/18/13 10:20

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0040		0.0040	0.0017	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Bromoform	<0.0040		0.0040	0.00092	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Chloromethane	<0.0040		0.0040	0.00084	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
1,1-Dichloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
1,1,1-Dichloroethane	<0.0040		0.0040	0.00065	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Ethylbenzene	<0.0040		0.0040	0.00081	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0011	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00066	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Tetrachloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Vinyl chloride	<0.0040		0.0040	0.00084	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1
Xylenes, Total	<0.0080		0.0080	0.00036	mg/Kg	☼	09/18/13 10:20	09/20/13 22:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	09/18/13 10:20	09/20/13 22:09	1
Dibromofluoromethane	98		75 - 120	09/18/13 10:20	09/20/13 22:09	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/18/13 10:20	09/20/13 22:09	1
Toluene-d8 (Surr)	97		75 - 122	09/18/13 10:20	09/20/13 22:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B04

Lab Sample ID: 500-63234-23

Date Collected: 09/18/13 10:20

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B04

Lab Sample ID: 500-63234-23

Date Collected: 09/18/13 10:20

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	09/19/13 18:30	09/27/13 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		25 - 110	09/19/13 18:30	09/27/13 20:32	1
Phenol-d5	77		31 - 110	09/19/13 18:30	09/27/13 20:32	1
Nitrobenzene-d5	76		25 - 115	09/19/13 18:30	09/27/13 20:32	1
2-Fluorobiphenyl	70		25 - 119	09/19/13 18:30	09/27/13 20:32	1
2,4,6-Tribromophenol	45		35 - 137	09/19/13 18:30	09/27/13 20:32	1
Terphenyl-d14	80		36 - 134	09/19/13 18:30	09/27/13 20:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9800		11	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Arsenic	7.1		0.57	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Barium	44		0.57	0.061	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Beryllium	0.63		0.23	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Boron	10		2.9	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Cadmium	0.77		0.11	0.015	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Calcium	49000		11	3.1	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Chromium	16		0.57	0.067	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Cobalt	9.0		0.29	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Copper	21		0.57	0.051	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Iron	18000		11	4.7	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Lead	9.9		0.29	0.086	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Magnesium	22000		5.7	1.2	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Manganese	320		0.57	0.031	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Nickel	22		0.57	0.056	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Potassium	2400		29	1.7	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Sodium	190		57	7.7	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Thallium	0.26 J		0.57	0.24	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Vanadium	19		0.29	0.042	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1
Zinc	43		1.1	0.23	mg/Kg	☼	09/19/13 08:30	10/08/13 04:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 00:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 00:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Client Sample ID: 846D-30-B04

Lab Sample ID: 500-63234-23

Date Collected: 09/18/13 10:20

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.62		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 00:32	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2		0.50	0.010	mg/L		09/30/13 07:45	10/03/13 06:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/03/13 06:02	1
Boron	1.9		0.10	0.050	mg/L		09/30/13 07:45	10/03/13 06:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/03/13 06:02	1
Chromium	0.072		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 06:02	1
Cobalt	0.018	J	0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 06:02	1
Iron	69		0.20	0.20	mg/L		09/30/13 07:45	10/03/13 06:02	1
Lead	0.031		0.0075	0.0050	mg/L		09/30/13 07:45	10/03/13 06:02	1
Manganese	0.30		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 06:02	1
Nickel	0.072		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 06:02	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/03/13 06:02	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 06:02	1
Zinc	0.89		0.10	0.020	mg/L		09/30/13 07:45	10/03/13 06:02	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 12:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 12:53	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.000020	mg/L		10/01/13 16:00	10/02/13 09:47	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0085	mg/Kg	☼	09/19/13 13:45	09/20/13 10:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.38		0.200	0.200	SU			10/03/13 12:10	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-10

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 2-17-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Name: <u>US6 / IL7 Wier & Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63234</u> Sample Temp: <u>5.2, 3.5, 3.4</u> Matrix Key:										
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES		Waste Characterization		Comments										
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
20	846D-30-B01	9/18	10:50	S	X	X					X	X	X	X		0-5
21	846D-30-B02		10:40	S	X	X					X	X	X	X		0-5
22	846D-30-B03		10:30	S	X	X					X	X	X	X		0-5
23	846D-30-B04		10:20	S	X	X					X	X	X	X		0-5
Relinquished by: <i>[Signature]</i>		Date/Time	Received by: <i>[Signature]</i>		Date/Time	Received by: <i>[Signature]</i>		Date/Time	Received by: <i>[Signature]</i>		Date/Time	Received by: <i>[Signature]</i>		Date/Time	Received by: <i>[Signature]</i>	
		9/18 4:00			9/18 4:00			9/18 4:00			9/18 4:00			9/18 4:00		
		9/18/13 1645			9/18/13 1645			9/18/13 1645			9/18/13 1645			9/18/13 1645		
		9/18/13 1645			9/18/13 1645			9/18/13 1645			9/18/13 1645			9/18/13 1645		
		9/18/13 1645			9/18/13 1645			9/18/13 1645			9/18/13 1645			9/18/13 1645		



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Approximately 15860 Cedar Road

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59931 Longitude: -87.97859
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1970505039 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59931 Longitude: -87.97859

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-31-B02 AND -B03 WERE SAMPLED ADJACENT TO ISGS SITE NO. 846D-31. SEE FIGURES 7 & 23, AND TABLE 3y OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NO.: 500-62784-2

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

Date:



PE or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-31

Vacant Area

Sample ID	846D-31-B02	846D-31-B03						
Sample Depth (ft)	0-5	0-5						
Sample Date	9/11/2013	9/11/2013						
PID	0	0						
Sample pH	7.5	7.89						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								
			¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non- Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62784-2
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/2/2013 1:32:20 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-2

Client Sample ID: 846D-31-B02

Lab Sample ID: 500-62784-9

Date Collected: 09/11/13 08:50

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 78.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.018		0.0048	0.0021	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Methyl tert-butyl ether	0.0038	J	0.0048	0.00079	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	09/11/13 08:50	09/13/13 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/11/13 08:50	09/13/13 15:20	1
Dibromofluoromethane	101		75 - 120	09/11/13 08:50	09/13/13 15:20	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/11/13 08:50	09/13/13 15:20	1
Toluene-d8 (Surr)	93		75 - 122	09/11/13 08:50	09/13/13 15:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.066	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-2

Client Sample ID: 846D-31-B02

Lab Sample ID: 500-62784-9

Date Collected: 09/11/13 08:50

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 78.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
2-Methylphenol	<0.21		0.21	0.056	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Naphthalene	<0.042		0.042	0.0081	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
2,4,6-Trichlorophenol	<0.42		0.42	0.053	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
2-Nitrophenol	<0.42		0.42	0.066	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
3-Nitroaniline	<0.42		0.42	0.081	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Acenaphthylene	<0.042		0.042	0.0096	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
4-Nitrophenol	<0.84		0.84	0.23	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Fluorene	<0.042		0.042	0.0095	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
4-Nitroaniline	<0.42		0.42	0.086	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
4,6-Dinitro-2-methylphenol	<0.42 *		0.42	0.10	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Phenanthrene	<0.042		0.042	0.018	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Anthracene	<0.042		0.042	0.0098	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Fluoranthene	<0.042		0.042	0.017	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Pyrene	<0.042		0.042	0.015	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Benzo[a]anthracene	<0.042		0.042	0.0088	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-2

Client Sample ID: 846D-31-B02

Lab Sample ID: 500-62784-9

Date Collected: 09/11/13 08:50

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 78.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.0095	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Di-n-octyl phthalate	<0.21		0.21	0.085	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Benzo[b]fluoranthene	<0.042		0.042	0.0081	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Benzo[k]fluoranthene	<0.042		0.042	0.010	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Benzo[a]pyrene	0.0089	J	0.042	0.0076	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.014	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Dibenz(a,h)anthracene	<0.042		0.042	0.012	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1
3 & 4 Methylphenol	<0.21		0.21	0.079	mg/Kg	☼	09/18/13 17:53	09/24/13 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		25 - 110	09/18/13 17:53	09/24/13 18:57	1
Phenol-d5	50		31 - 110	09/18/13 17:53	09/24/13 18:57	1
Nitrobenzene-d5	51		25 - 115	09/18/13 17:53	09/24/13 18:57	1
2-Fluorobiphenyl	54		25 - 119	09/18/13 17:53	09/24/13 18:57	1
2,4,6-Tribromophenol	58		35 - 137	09/18/13 17:53	09/24/13 18:57	1
Terphenyl-d14	86		36 - 134	09/18/13 17:53	09/24/13 18:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9900	B	12	1.1	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Antimony	0.56	J	1.2	0.49	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Arsenic	11		0.61	0.12	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Barium	47		0.61	0.065	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Beryllium	0.54		0.24	0.021	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Boron	4.4		3.0	0.13	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Cadmium	0.28	B	0.12	0.015	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Calcium	26000	B	12	3.3	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Chromium	14		0.61	0.071	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Cobalt	14		0.30	0.022	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Copper	29		0.61	0.054	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Iron	23000	B	12	5.0	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Lead	21	B	0.30	0.091	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Magnesium	16000	B	6.1	1.3	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Manganese	480	B	0.61	0.033	mg/Kg	☼	09/11/13 16:30	09/19/13 14:11	1
Nickel	35		0.61	0.060	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Potassium	1200	B	30	1.8	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Selenium	0.39	J	0.61	0.22	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Sodium	88		61	8.2	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Thallium	0.51	J	0.61	0.26	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Vanadium	18		0.30	0.045	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1
Zinc	77		1.2	0.25	mg/Kg	☼	09/11/13 16:30	09/19/13 05:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.25		0.20	0.20	mg/L		09/27/13 08:00	09/29/13 16:52	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/27/13 08:00	09/29/13 16:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-2

Client Sample ID: 846D-31-B02

Lab Sample ID: 500-62784-9

Date Collected: 09/11/13 08:50

Matrix: Solid

Date Received: 09/11/13 13:20

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	6.4		0.025	0.010	mg/L		09/27/13 08:00	09/29/13 16:52	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68	B	0.50	0.010	mg/L		09/23/13 09:00	09/25/13 18:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/23/13 09:00	09/25/13 18:41	1
Boron	0.59	B	0.20	0.050	mg/L		09/23/13 09:00	09/25/13 18:41	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		09/23/13 09:00	09/25/13 18:41	1
Chromium	0.082		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:41	1
Cobalt	0.027		0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:41	1
Iron	100		0.20	0.20	mg/L		09/23/13 09:00	09/25/13 18:41	1
Lead	0.067		0.0075	0.0050	mg/L		09/23/13 09:00	09/25/13 18:41	1
Manganese	1.0		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:41	1
Nickel	0.081		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:41	1
Selenium	<0.050		0.050	0.010	mg/L		09/23/13 09:00	09/25/13 18:41	1
Silver	<0.025		0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:41	1
Zinc	0.47	B	0.10	0.020	mg/L		09/23/13 09:00	09/25/13 18:41	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/23/13 09:00	09/24/13 12:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/23/13 09:00	09/24/13 12:54	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J	0.00020	0.000020	mg/L		09/23/13 15:15	09/24/13 12:07	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.020	0.0093	mg/Kg	☼	09/12/13 15:00	09/13/13 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.50		0.200	0.200	SU			09/20/13 13:53	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-2

Client Sample ID: 846D-31-B03

Lab Sample ID: 500-62784-10

Date Collected: 09/11/13 08:40

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 80.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	09/11/13 08:40	09/13/13 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	09/11/13 08:40	09/13/13 15:43	1
Dibromofluoromethane	103		75 - 120	09/11/13 08:40	09/13/13 15:43	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/11/13 08:40	09/13/13 15:43	1
Toluene-d8 (Surr)	103		75 - 122	09/11/13 08:40	09/13/13 15:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-2

Client Sample ID: 846D-31-B03

Lab Sample ID: 500-62784-10

Date Collected: 09/11/13 08:40

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 80.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
4,6-Dinitro-2-methylphenol	<0.39	*	0.39	0.096	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-2

Client Sample ID: 846D-31-B03

Lab Sample ID: 500-62784-10

Date Collected: 09/11/13 08:40

Matrix: Solid

Date Received: 09/11/13 13:20

Percent Solids: 80.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	09/18/13 17:53	09/24/13 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		25 - 110	09/18/13 17:53	09/24/13 19:19	1
Phenol-d5	57		31 - 110	09/18/13 17:53	09/24/13 19:19	1
Nitrobenzene-d5	48		25 - 115	09/18/13 17:53	09/24/13 19:19	1
2-Fluorobiphenyl	52		25 - 119	09/18/13 17:53	09/24/13 19:19	1
2,4,6-Tribromophenol	71		35 - 137	09/18/13 17:53	09/24/13 19:19	1
Terphenyl-d14	89		36 - 134	09/18/13 17:53	09/24/13 19:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000	B	12	1.1	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Antimony	0.48	J	1.2	0.47	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Arsenic	7.8		0.58	0.12	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Barium	51		0.58	0.062	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Beryllium	0.51		0.23	0.021	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Boron	5.6		2.9	0.12	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Cadmium	0.26	B	0.12	0.015	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Calcium	28000	B	12	3.2	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Chromium	16		0.58	0.068	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Cobalt	12		0.29	0.021	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Copper	25		0.58	0.052	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Iron	20000	B	12	4.8	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Lead	20	B	0.29	0.087	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Magnesium	20000	B	5.8	1.2	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Manganese	340	B	0.58	0.032	mg/Kg	☼	09/11/13 16:30	09/19/13 14:24	1
Nickel	30		0.58	0.057	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Potassium	1600	B	29	1.8	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Selenium	0.45	J	0.58	0.21	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Sodium	320		58	7.8	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Thallium	0.46	J	0.58	0.25	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Vanadium	18		0.29	0.043	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1
Zinc	77		1.2	0.24	mg/Kg	☼	09/11/13 16:30	09/19/13 05:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.28		0.20	0.20	mg/L		09/27/13 08:00	09/29/13 16:58	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/27/13 08:00	09/29/13 16:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-2

Client Sample ID: 846D-31-B03

Lab Sample ID: 500-62784-10

Date Collected: 09/11/13 08:40

Matrix: Solid

Date Received: 09/11/13 13:20

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.19		0.025	0.010	mg/L		09/27/13 08:00	09/29/13 16:58	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60	B	0.50	0.010	mg/L		09/23/13 09:00	09/25/13 18:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/23/13 09:00	09/25/13 18:45	1
Boron	0.58	B	0.20	0.050	mg/L		09/23/13 09:00	09/25/13 18:45	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		09/23/13 09:00	09/25/13 18:45	1
Chromium	0.079		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:45	1
Cobalt	0.012	J	0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:45	1
Iron	74		0.20	0.20	mg/L		09/23/13 09:00	09/25/13 18:45	1
Lead	0.051		0.0075	0.0050	mg/L		09/23/13 09:00	09/25/13 18:45	1
Manganese	0.23		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:45	1
Nickel	0.058		0.025	0.010	mg/L		09/23/13 09:00	09/25/13 18:45	1
Selenium	<0.050		0.050	0.010	mg/L		09/23/13 09:00	09/25/13 18:45	1
Silver	<0.025		0.025	0.0050	mg/L		09/23/13 09:00	09/25/13 18:45	1
Zinc	0.48	B	0.10	0.020	mg/L		09/23/13 09:00	09/25/13 18:45	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/23/13 09:00	09/24/13 12:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/23/13 09:00	09/24/13 12:58	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000020	mg/L		09/23/13 15:15	09/24/13 12:09	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.020	0.0094	mg/Kg	☼	09/12/13 15:00	09/13/13 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.89		0.200	0.200	SU			09/20/13 13:59	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62784-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7Will v Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEI</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>50062784</u> Sample Temp: _____													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		Matrix Key: W: Water S: Soil SL: Sludge L: Leachate DW: Drinking Water OL: Oil O: Other														
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
7	846D-31-B01	9/11/13	9:00	S	X	X					X	X	X	X		0-5'
8	846D-31-B01 DUP	9/11/13	9:05	S	X	X					X	X	X	X		0-5'
9	846D-31-B02	9/11/13	8:50	S	X	X					X	X	X	X		0-5'
10	846D-31-B03	9/11/13	8:40	S	X	X					X	X	X	X		0-5'
Relinquished by: <u>John A. Mayo (AEI)</u> Date/Time: <u>9/11/13 1:17</u> Received by: <u>[Signature]</u> Date/Time: <u>9/11/13 1320</u>																
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____																
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____																



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14800 Cedar Road

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60065 Longitude: +87.97861
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60065 Longitude: -87.97861

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-32-B02 AND -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-32. SEE FIGURE 23 AND TABLE 3z OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-63074-2

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

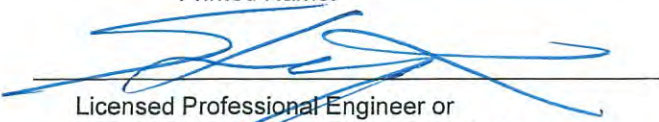
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

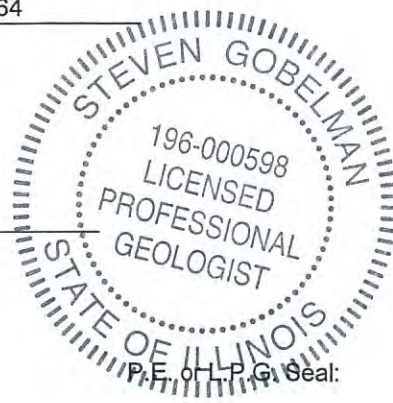
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/19

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63074-2
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/8/2013 3:44:39 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-2

Client Sample ID: 846D-32-B02

Lab Sample ID: 500-63074-4

Date Collected: 09/16/13 11:10

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 87.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0030	J	0.0041	0.0018	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	09/16/13 11:10	09/18/13 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/16/13 11:10	09/18/13 14:39	1
Dibromofluoromethane	91		75 - 120	09/16/13 11:10	09/18/13 14:39	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/16/13 11:10	09/18/13 14:39	1
Toluene-d8 (Surr)	95		75 - 122	09/16/13 11:10	09/18/13 14:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/19/13 07:16	09/27/13 11:27	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/19/13 07:16	09/27/13 11:27	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/19/13 07:16	09/27/13 11:27	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/19/13 07:16	09/27/13 11:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-2

Client Sample ID: 846D-32-B02

Lab Sample ID: 500-63074-4

Date Collected: 09/16/13 11:10

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Isophorone	<0.18		0.18	0.041	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Carbazole	<0.18		0.18	0.052	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Pyrene	<0.036		0.036	0.013	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	*	09/19/13 07:16	09/27/13 11:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-2

Client Sample ID: 846D-32-B02

Lab Sample ID: 500-63074-4

Date Collected: 09/16/13 11:10

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	09/19/13 07:16	09/27/13 11:27	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	09/19/13 07:16	09/27/13 11:27	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 11:27	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	09/19/13 07:16	09/27/13 11:27	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	09/19/13 07:16	09/27/13 11:27	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	09/19/13 07:16	09/27/13 11:27	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	09/19/13 07:16	09/27/13 11:27	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 11:27	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/19/13 07:16	09/27/13 11:27	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 11:27	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	09/19/13 07:16	09/27/13 11:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		25 - 110	09/19/13 07:16	09/27/13 11:27	1
Phenol-d5	67		31 - 110	09/19/13 07:16	09/27/13 11:27	1
Nitrobenzene-d5	64		25 - 115	09/19/13 07:16	09/27/13 11:27	1
2-Fluorobiphenyl	58		25 - 119	09/19/13 07:16	09/27/13 11:27	1
2,4,6-Tribromophenol	73		35 - 137	09/19/13 07:16	09/27/13 11:27	1
Terphenyl-d14	66		36 - 134	09/19/13 07:16	09/27/13 11:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7300	B	11	0.97	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Antimony	0.54	J	1.1	0.42	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Arsenic	9.3		0.53	0.10	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Barium	39		0.53	0.056	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Beryllium	0.45		0.21	0.019	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Boron	6.7	B	2.6	0.11	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Cadmium	0.28	B	0.11	0.013	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Calcium	83000	B	110	29	mg/Kg	☼	09/17/13 08:00	09/18/13 16:10	10
Chromium	12		0.53	0.061	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Cobalt	13		0.26	0.019	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Copper	24	B	0.53	0.047	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Iron	18000		11	4.3	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Lead	14		0.26	0.079	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Magnesium	25000		5.3	1.1	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Manganese	370		0.53	0.029	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Nickel	28		0.53	0.052	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Potassium	1300	B	26	1.6	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Selenium	0.37	J	0.53	0.19	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Sodium	91	B	53	7.1	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Thallium	0.38	J	0.53	0.22	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Vanadium	15		0.26	0.039	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1
Zinc	59		1.1	0.21	mg/Kg	☼	09/17/13 08:00	09/17/13 20:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/06/13 14:30	10/07/13 13:50	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/06/13 14:30	10/07/13 13:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-2

Client Sample ID: 846D-32-B02

Lab Sample ID: 500-63074-4

Date Collected: 09/16/13 11:10

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1	B	0.50	0.010	mg/L		09/27/13 08:00	10/03/13 00:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/13 08:00	10/03/13 00:59	1
Boron	1.9	B	0.10	0.050	mg/L		09/27/13 08:00	10/03/13 00:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/13 08:00	10/03/13 00:59	1
Chromium	0.018	J	0.025	0.010	mg/L		09/27/13 08:00	10/03/13 00:59	1
Cobalt	0.0055	J	0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 00:59	1
Iron	15		0.20	0.20	mg/L		09/27/13 08:00	10/03/13 00:59	1
Lead	0.0078		0.0075	0.0050	mg/L		09/27/13 08:00	10/03/13 00:59	1
Manganese	0.077		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 00:59	1
Nickel	0.017	J	0.025	0.010	mg/L		09/27/13 08:00	10/03/13 00:59	1
Selenium	<0.050		0.050	0.010	mg/L		09/27/13 08:00	10/03/13 00:59	1
Silver	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 00:59	1
Zinc	0.79	B	0.10	0.020	mg/L		09/27/13 08:00	10/03/13 00:59	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/27/13 08:00	09/30/13 11:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/27/13 08:00	09/30/13 11:29	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/27/13 16:10	09/30/13 10:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0086	mg/Kg	☆	09/17/13 13:45	09/18/13 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.78		0.200	0.200	SU			10/01/13 15:34	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-2

Client Sample ID: 846D-32-B03

Lab Sample ID: 500-63074-5

Date Collected: 09/16/13 11:15

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 81.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.018		0.0046	0.0020	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	09/16/13 11:15	09/18/13 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	09/16/13 11:15	09/18/13 15:01	1
Dibromofluoromethane	89		75 - 120	09/16/13 11:15	09/18/13 15:01	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	09/16/13 11:15	09/18/13 15:01	1
Toluene-d8 (Surr)	100		75 - 122	09/16/13 11:15	09/18/13 15:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-2

Client Sample ID: 846D-32-B03

Lab Sample ID: 500-63074-5

Date Collected: 09/16/13 11:15

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 81.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Benzo[a]anthracene	<0.039		0.039	0.0081	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-2

Client Sample ID: 846D-32-B03

Lab Sample ID: 500-63074-5

Date Collected: 09/16/13 11:15

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 81.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Benzo[b]fluoranthene	<0.039		0.039	0.0075	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	09/19/13 07:16	09/27/13 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		25 - 110	09/19/13 07:16	09/27/13 11:50	1
Phenol-d5	74		31 - 110	09/19/13 07:16	09/27/13 11:50	1
Nitrobenzene-d5	71		25 - 115	09/19/13 07:16	09/27/13 11:50	1
2-Fluorobiphenyl	66		25 - 119	09/19/13 07:16	09/27/13 11:50	1
2,4,6-Tribromophenol	82		35 - 137	09/19/13 07:16	09/27/13 11:50	1
Terphenyl-d14	76		36 - 134	09/19/13 07:16	09/27/13 11:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000	B	12	1.1	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Arsenic	12		0.58	0.12	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Barium	100		0.58	0.062	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Beryllium	0.71		0.23	0.021	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Boron	2.3	J B	2.9	0.12	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Cadmium	0.12	B	0.12	0.015	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Calcium	2100	B	12	3.2	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Chromium	20		0.58	0.068	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Cobalt	7.9		0.29	0.021	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Copper	27	B	0.58	0.052	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Iron	26000		12	4.8	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Lead	14		0.29	0.087	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Magnesium	3800		5.8	1.2	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Manganese	270		0.58	0.032	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Nickel	29		0.58	0.057	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Potassium	1000	B	29	1.8	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Selenium	0.42	J	0.58	0.21	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Sodium	49	J B	58	7.8	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Thallium	0.50	J	0.58	0.25	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Vanadium	26		0.29	0.043	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1
Zinc	76		1.2	0.24	mg/Kg	☼	09/17/13 08:00	09/17/13 20:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/06/13 14:30	10/07/13 13:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-2

Client Sample ID: 846D-32-B03

Lab Sample ID: 500-63074-5

Date Collected: 09/16/13 11:15

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.91	B	0.50	0.010	mg/L		09/27/13 08:00	10/03/13 01:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/13 08:00	10/03/13 01:05	1
Boron	1.7	B	0.10	0.050	mg/L		09/27/13 08:00	10/03/13 01:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/13 08:00	10/03/13 01:05	1
Chromium	0.010	J	0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:05	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 01:05	1
Iron	6.5		0.20	0.20	mg/L		09/27/13 08:00	10/03/13 01:05	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/27/13 08:00	10/03/13 01:05	1
Manganese	0.030		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:05	1
Nickel	<0.025		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:05	1
Selenium	<0.050		0.050	0.010	mg/L		09/27/13 08:00	10/03/13 01:05	1
Silver	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 01:05	1
Zinc	0.67	B	0.10	0.020	mg/L		09/27/13 08:00	10/03/13 01:05	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/27/13 08:00	09/30/13 11:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/27/13 08:00	09/30/13 11:32	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/27/13 16:10	09/30/13 10:47	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.019	0.0089	mg/Kg	✱	09/17/13 13:45	09/18/13 09:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.57		0.200	0.200	SU			10/01/13 15:53	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>US6 / IL7 Wild + Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>ACEI</u>	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-63074</u> Sample Temp: <u>3, 4, 3, 6, 3, 7</u> Matrix Key:															
Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other																		
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																		
ANALYSES																		
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments		
3	846D-32-B01	9/16/13	11:00	S	X	X					X	X	X	X		0-5'		
4	846D-32-B02	↓	11:10	S	X	X					X	X	X	X		0-5'		
5	846D-32-B03	↓	11:15	S	X	X					X	X	X	X		0-5'		
Relinquished by: <u>Sikin A. April (ACEI)</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	Date/Time <u>9/16/13 4:30</u>						
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	Date/Time <u>9/16/13 1705</u>						
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	Date/Time <u>9/17/13 0630</u>						



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15932 Cedar Road

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59808 Longitude: -87.97846
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59808 Longitude: +87.97846

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-34-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 846D-34. SEE FIGURE 22 AND TABLE 3aa OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NO.: 500-63234-11

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

Printed Name:



 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

01/13/14

 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63234-11
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/10/2013 2:39:25 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-11

Client Sample ID: 846D-34-B01

Lab Sample ID: 500-63234-24

Date Collected: 09/18/13 10:15

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 87.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Chloromethane	<0.0042		0.0042	0.00087	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Dibromochloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Tetrachloroethene	<0.0042		0.0042	0.00063	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00074	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Vinyl acetate	<0.0042		0.0042	0.00065	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Vinyl chloride	<0.0042		0.0042	0.00087	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	09/18/13 10:15	09/20/13 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/18/13 10:15	09/20/13 22:32	1
Dibromofluoromethane	103		75 - 120	09/18/13 10:15	09/20/13 22:32	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/18/13 10:15	09/20/13 22:32	1
Toluene-d8 (Surr)	95		75 - 122	09/18/13 10:15	09/20/13 22:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-11

Client Sample ID: 846D-34-B01

Lab Sample ID: 500-63234-24

Date Collected: 09/18/13 10:15

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-11

Client Sample ID: 846D-34-B01

Lab Sample ID: 500-63234-24

Date Collected: 09/18/13 10:15

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/19/13 18:30	09/30/13 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		25 - 110				09/19/13 18:30	09/30/13 18:13	1
Phenol-d5	73		31 - 110				09/19/13 18:30	09/30/13 18:13	1
Nitrobenzene-d5	67		25 - 115				09/19/13 18:30	09/30/13 18:13	1
2-Fluorobiphenyl	84		25 - 119				09/19/13 18:30	09/30/13 18:13	1
2,4,6-Tribromophenol	81		35 - 137				09/19/13 18:30	09/30/13 18:13	1
Terphenyl-d14	99		36 - 134				09/19/13 18:30	09/30/13 18:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9500		11	1.0	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Arsenic	6.5		0.55	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Barium	42		0.55	0.059	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Beryllium	0.58		0.22	0.019	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Boron	8.6		2.7	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Cadmium	0.61		0.11	0.014	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Calcium	42000		11	3.0	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Chromium	15		0.55	0.064	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Cobalt	8.2		0.27	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Copper	21		0.55	0.049	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Iron	16000		11	4.5	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Lead	9.5		0.27	0.082	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Magnesium	19000		5.5	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Manganese	260		0.55	0.030	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Nickel	22		0.55	0.054	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Potassium	2100		27	1.6	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Sodium	140		55	7.3	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Thallium	0.24 J		0.55	0.23	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Vanadium	18		0.27	0.041	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1
Zinc	38		1.1	0.22	mg/Kg	☼	09/19/13 08:30	10/08/13 04:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 00:38	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 00:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-11

Client Sample ID: 846D-34-B01

Lab Sample ID: 500-63234-24

Date Collected: 09/18/13 10:15

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.25		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 00:38	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.99		0.50	0.010	mg/L		09/30/13 07:45	10/03/13 06:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/03/13 06:09	1
Boron	1.7		0.10	0.050	mg/L		09/30/13 07:45	10/03/13 06:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/03/13 06:09	1
Chromium	0.048		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 06:09	1
Cobalt	0.012	J	0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 06:09	1
Iron	45		0.20	0.20	mg/L		09/30/13 07:45	10/03/13 06:09	1
Lead	0.024		0.0075	0.0050	mg/L		09/30/13 07:45	10/03/13 06:09	1
Manganese	0.20		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 06:09	1
Nickel	0.047		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 06:09	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/03/13 06:09	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 06:09	1
Zinc	0.76		0.10	0.020	mg/L		09/30/13 07:45	10/03/13 06:09	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 13:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 13:03	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000092	J	0.00020	0.000020	mg/L		10/01/13 16:00	10/02/13 09:53	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0085	mg/Kg	☼	09/19/13 13:45	09/20/13 10:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.35		0.200	0.200	SU			10/03/13 12:13	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-11

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14368 to 14748 159th Street

City: Lockport State: IL Zip Code: 60441

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59915 Longitude: -87.97354

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59915 Longitude: -87.97354

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-36-B01, -B02, -B03, -B04, -B05, -B06, -B07, -B08, -B10 AND -B11 WERE SAMPLED ADJACENT TO SITE NO. 846D-36. SEE FIGURES 7, 8, 9 & 23, AND TABLE 3ab OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-63074-3, 500-60686-1, AND 500-62722-1

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

12/13/14



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-60686-1

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/11/2013 4:19:43 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B04-1

Lab Sample ID: 500-60686-1

Date Collected: 08/07/13 12:30

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 85.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.037		0.0052	0.0022	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Chlorobenzene	<0.0052		0.0052	0.00052	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Toluene	<0.0052		0.0052	0.00072	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Vinyl acetate	<0.0052		0.0052	0.00081	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	08/07/13 12:30	08/13/13 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	08/07/13 12:30	08/13/13 19:50	1
Dibromofluoromethane	102		75 - 120	08/07/13 12:30	08/13/13 19:50	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	08/07/13 12:30	08/13/13 19:50	1
Toluene-d8 (Surr)	104		75 - 122	08/07/13 12:30	08/13/13 19:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B04-1

Lab Sample ID: 500-60686-1

Date Collected: 08/07/13 12:30

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B04-1

Lab Sample ID: 500-60686-1

Date Collected: 08/07/13 12:30

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/16/13 07:11	08/20/13 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	38		30 - 110				08/16/13 07:11	08/20/13 17:00	1
Phenol-d5	42		31 - 110				08/16/13 07:11	08/20/13 17:00	1
Nitrobenzene-d5	41		30 - 115				08/16/13 07:11	08/20/13 17:00	1
2-Fluorobiphenyl	42		30 - 119				08/16/13 07:11	08/20/13 17:00	1
2,4,6-Tribromophenol	47		35 - 137				08/16/13 07:11	08/20/13 17:00	1
Terphenyl-d14	53		36 - 134				08/16/13 07:11	08/20/13 17:00	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
Endosulfan I	<0.0019		0.0019	0.00081	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
Toxaphene	<0.019		0.019	0.0078	mg/Kg	☼	08/15/13 19:54	08/18/13 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		56 - 128				08/15/13 19:54	08/18/13 14:51	1
Tetrachloro-m-xylene	83		45 - 112				08/15/13 19:54	08/18/13 14:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B04-1

Lab Sample ID: 500-60686-1

Date Collected: 08/07/13 12:30

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 85.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Arsenic	8.4		0.58	0.11	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Barium	53		0.58	0.062	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Beryllium	0.59		0.23	0.020	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Boron	7.0		2.9	0.12	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Cadmium	0.75		0.12	0.015	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Calcium	53000	B	12	3.1	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Chromium	15		0.58	0.067	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Cobalt	10		0.29	0.021	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Copper	24		0.58	0.051	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Iron	19000		12	4.7	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Lead	11		0.29	0.086	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Magnesium	25000	B	5.8	1.2	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Manganese	380	B	0.58	0.031	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Nickel	23		0.58	0.056	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Potassium	1900		29	1.7	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Selenium	<0.58		0.58	0.20	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Sodium	160		58	7.7	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Thallium	0.24	J	0.58	0.24	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Vanadium	19		0.29	0.043	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Zinc	48		1.2	0.23	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1
Aluminum	9300	B	12	1.1	mg/Kg	☼	08/08/13 15:00	08/18/13 14:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/13 08:30	09/11/13 04:20	1
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 04:20	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 04:20	1
Manganese	0.27		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 04:20	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.37	J B	0.50	0.010	mg/L		08/16/13 09:30	09/08/13 12:33	1
Beryllium	0.0042		0.0040	0.0040	mg/L		08/16/13 09:30	09/08/13 12:33	1
Boron	0.18		0.10	0.050	mg/L		08/16/13 09:30	09/08/13 12:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 09:30	09/08/13 12:33	1
Chromium	0.083		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 12:33	1
Cobalt	0.024	J	0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 12:33	1
Iron	90		0.20	0.20	mg/L		08/16/13 09:30	09/08/13 12:33	1
Lead	0.038		0.0075	0.0050	mg/L		08/16/13 09:30	09/08/13 12:33	1
Manganese	0.42		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 12:33	1
Nickel	0.096		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 12:33	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 09:30	09/08/13 12:33	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 12:33	1
Zinc	0.27		0.10	0.020	mg/L		08/16/13 09:30	09/08/13 12:33	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/13 08:30	09/11/13 13:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B04-1

Lab Sample ID: 500-60686-1

Date Collected: 08/07/13 12:30

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 09:30	08/19/13 13:03	1
Thallium	0.0023		0.0020	0.0020	mg/L		08/16/13 09:30	08/19/13 13:03	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J	0.00020	0.000020	mg/L		08/16/13 16:00	08/19/13 10:16	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.019	0.0090	mg/Kg	☼	08/13/13 13:00	08/14/13 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU			08/20/13 18:16	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B04-2

Lab Sample ID: 500-60686-2

Date Collected: 08/07/13 12:35

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.030		0.0042	0.0018	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Bromodichloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Bromoform	<0.0042		0.0042	0.00097	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Carbon tetrachloride	<0.0042		0.0042	0.00077	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Chloromethane	<0.0042		0.0042	0.00089	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00060	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
1,1,1-Dichloroethane	<0.0042		0.0042	0.00068	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00070	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00076	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00058	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Trichloroethene	<0.0042		0.0042	0.00070	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Vinyl chloride	<0.0042		0.0042	0.00089	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	08/07/13 12:35	08/13/13 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	08/07/13 12:35	08/13/13 20:14	1
Dibromofluoromethane	105		75 - 120	08/07/13 12:35	08/13/13 20:14	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	08/07/13 12:35	08/13/13 20:14	1
Toluene-d8 (Surr)	105		75 - 122	08/07/13 12:35	08/13/13 20:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B04-2

Lab Sample ID: 500-60686-2

Date Collected: 08/07/13 12:35

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B04-2

Lab Sample ID: 500-60686-2

Date Collected: 08/07/13 12:35

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/16/13 07:11	08/20/13 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		30 - 110	08/16/13 07:11	08/20/13 17:20	1
Phenol-d5	52		31 - 110	08/16/13 07:11	08/20/13 17:20	1
Nitrobenzene-d5	52		30 - 115	08/16/13 07:11	08/20/13 17:20	1
2-Fluorobiphenyl	51		30 - 119	08/16/13 07:11	08/20/13 17:20	1
2,4,6-Tribromophenol	68		35 - 137	08/16/13 07:11	08/20/13 17:20	1
Terphenyl-d14	75		36 - 134	08/16/13 07:11	08/20/13 17:20	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
alpha-Chlordane	<0.0019		0.0019	0.00095	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
4,4'-DDT	<0.0019		0.0019	0.00099	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
Endosulfan I	<0.0019		0.0019	0.00082	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
Heptachlor	<0.0019		0.0019	0.00079	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
Methoxychlor	<0.0094		0.0094	0.00037	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	08/15/13 19:54	08/18/13 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		56 - 128	08/15/13 19:54	08/18/13 16:10	1
Tetrachloro-m-xylene	82		45 - 112	08/15/13 19:54	08/18/13 16:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B04-2

Lab Sample ID: 500-60686-2

Date Collected: 08/07/13 12:35

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Arsenic	6.9		0.58	0.11	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Barium	36		0.58	0.062	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Beryllium	0.53		0.23	0.020	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Boron	6.9		2.9	0.12	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Cadmium	0.60		0.12	0.015	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Calcium	47000	B	12	3.1	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Chromium	15		0.58	0.067	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Cobalt	6.1		0.29	0.021	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Copper	20		0.58	0.051	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Iron	18000		12	4.7	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Lead	9.8		0.29	0.086	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Magnesium	26000	B	5.8	1.2	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Manganese	290	B	0.58	0.031	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Nickel	20		0.58	0.057	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Potassium	2100		29	1.7	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Selenium	<0.58		0.58	0.20	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Sodium	260		58	7.7	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Thallium	0.45	J	0.58	0.24	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Vanadium	17		0.29	0.043	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Zinc	48		1.2	0.23	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1
Aluminum	8500	B	12	1.1	mg/Kg	☼	08/08/13 15:00	08/18/13 15:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/13 08:30	09/11/13 04:26	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 04:26	1
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 04:26	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 04:26	1
Manganese	0.83		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 04:26	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 04:26	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.88	B	0.50	0.010	mg/L		08/16/13 09:30	09/08/13 13:12	1
Beryllium	0.0051		0.0040	0.0040	mg/L		08/16/13 09:30	09/08/13 13:12	1
Boron	1.0		0.10	0.050	mg/L		08/16/13 09:30	09/08/13 13:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 09:30	09/08/13 13:12	1
Chromium	0.11		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:12	1
Cobalt	0.034		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:12	1
Iron	110		0.20	0.20	mg/L		08/16/13 09:30	09/08/13 13:12	1
Lead	0.056		0.0075	0.0050	mg/L		08/16/13 09:30	09/08/13 13:12	1
Manganese	0.46		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:12	1
Nickel	0.12		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:12	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 09:30	09/08/13 13:12	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:12	1
Zinc	0.78		0.10	0.020	mg/L		08/16/13 09:30	09/08/13 13:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B04-2

Lab Sample ID: 500-60686-2

Date Collected: 08/07/13 12:35

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/13 08:30	09/11/13 13:42	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 09:30	08/19/13 13:07	1
Thallium	0.0026		0.0020	0.0020	mg/L		08/16/13 09:30	08/19/13 13:07	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J	0.00020	0.000020	mg/L		08/16/13 16:00	08/19/13 10:18	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.0090	mg/Kg	☼	08/13/13 13:00	08/14/13 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.35		0.200	0.200	SU			08/20/13 18:19	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B05-1

Lab Sample ID: 500-60686-3

Date Collected: 08/07/13 12:20

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.030		0.0046	0.0020	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	08/07/13 12:20	08/13/13 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	08/07/13 12:20	08/13/13 20:37	1
Dibromofluoromethane	102		75 - 120	08/07/13 12:20	08/13/13 20:37	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	08/07/13 12:20	08/13/13 20:37	1
Toluene-d8 (Surr)	103		75 - 122	08/07/13 12:20	08/13/13 20:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B05-1

Lab Sample ID: 500-60686-3

Date Collected: 08/07/13 12:20

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B05-1

Lab Sample ID: 500-60686-3

Date Collected: 08/07/13 12:20

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/16/13 07:11	08/20/13 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		30 - 110	08/16/13 07:11	08/20/13 17:40	1
Phenol-d5	51		31 - 110	08/16/13 07:11	08/20/13 17:40	1
Nitrobenzene-d5	59		30 - 115	08/16/13 07:11	08/20/13 17:40	1
2-Fluorobiphenyl	58		30 - 119	08/16/13 07:11	08/20/13 17:40	1
2,4,6-Tribromophenol	63		35 - 137	08/16/13 07:11	08/20/13 17:40	1
Terphenyl-d14	71		36 - 134	08/16/13 07:11	08/20/13 17:40	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00081	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
alpha-BHC	<0.0020		0.0020	0.00050	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
alpha-Chlordane	<0.0020		0.0020	0.00099	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
beta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
delta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
Endosulfan I	<0.0020		0.0020	0.00085	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
Heptachlor	<0.0020		0.0020	0.00082	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
Methoxychlor	<0.0097		0.0097	0.00038	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1
Toxaphene	<0.020		0.020	0.0082	mg/Kg	☼	08/15/13 19:54	08/18/13 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		56 - 128	08/15/13 19:54	08/18/13 16:29	1
Tetrachloro-m-xylene	86		45 - 112	08/15/13 19:54	08/18/13 16:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B05-1

Lab Sample ID: 500-60686-3

Date Collected: 08/07/13 12:20

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 85.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Arsenic	11		0.58	0.12	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Barium	64		0.58	0.062	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Beryllium	0.79		0.23	0.020	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Boron	2.6	J	2.9	0.12	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Cadmium	0.42		0.12	0.015	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Calcium	2200	B	12	3.1	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Chromium	19		0.58	0.067	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Cobalt	11		0.29	0.021	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Copper	27		0.58	0.051	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Iron	27000		12	4.8	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Lead	16		0.29	0.086	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Magnesium	3900	B	5.8	1.2	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Manganese	420	B	0.58	0.031	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Nickel	27		0.58	0.057	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Potassium	1200		29	1.7	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Sodium	63		58	7.8	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Thallium	0.66		0.58	0.24	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Vanadium	25		0.29	0.043	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Zinc	56		1.2	0.23	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1
Aluminum	13000	B	12	1.1	mg/Kg	☼	08/08/13 15:00	08/18/13 15:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/13 08:30	09/11/13 04:33	1
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 04:33	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 04:33	1
Manganese	0.16		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 04:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	B	0.50	0.010	mg/L		08/16/13 09:30	09/08/13 13:19	1
Beryllium	0.0040		0.0040	0.0040	mg/L		08/16/13 09:30	09/08/13 13:19	1
Boron	1.3		0.10	0.050	mg/L		08/16/13 09:30	09/08/13 13:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 09:30	09/08/13 13:19	1
Chromium	0.081		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:19	1
Cobalt	0.023	J	0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:19	1
Iron	83		0.20	0.20	mg/L		08/16/13 09:30	09/08/13 13:19	1
Lead	0.034		0.0075	0.0050	mg/L		08/16/13 09:30	09/08/13 13:19	1
Manganese	0.34		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:19	1
Nickel	0.085		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:19	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 09:30	09/08/13 13:19	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:19	1
Zinc	0.86		0.10	0.020	mg/L		08/16/13 09:30	09/08/13 13:19	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/13 08:30	09/11/13 13:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B05-1

Lab Sample ID: 500-60686-3

Date Collected: 08/07/13 12:20

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 09:30	08/19/13 13:08	1
Thallium	0.0023		0.0020	0.0020	mg/L		08/16/13 09:30	08/19/13 13:08	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000098	J	0.00020	0.000020	mg/L		08/16/13 16:00	08/19/13 10:20	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.020	0.0092	mg/Kg	☼	08/13/13 13:00	08/14/13 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU			08/20/13 18:21	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B05-2

Lab Sample ID: 500-60686-4

Date Collected: 08/07/13 12:25

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.0039	0.0017	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Benzene	<0.0039		0.0039	0.00054	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Bromodichloromethane	<0.0039		0.0039	0.00068	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Bromoform	<0.0039		0.0039	0.00090	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Bromomethane	<0.0039		0.0039	0.0012	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Carbon disulfide	<0.0039		0.0039	0.00059	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Carbon tetrachloride	<0.0039		0.0039	0.00071	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Chlorobenzene	<0.0039		0.0039	0.00040	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Chloroform	<0.0039		0.0039	0.00045	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Chloromethane	<0.0039		0.0039	0.00082	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00055	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00051	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Dibromochloromethane	<0.0039		0.0039	0.00068	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
1,1-Dichloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
1,1-Dichloroethene	<0.0039		0.0039	0.00063	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
1,2-Dichloropropane	<0.0039		0.0039	0.00060	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.00051	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Ethylbenzene	<0.0039		0.0039	0.00079	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
2-Hexanone	<0.0039		0.0039	0.0011	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Methylene Chloride	<0.0039		0.0039	0.0011	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0010	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00065	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Styrene	<0.0039		0.0039	0.00051	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00079	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Tetrachloroethene	<0.0039		0.0039	0.00060	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Toluene	<0.0039		0.0039	0.00055	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00054	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.00070	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00059	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00054	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Trichloroethene	<0.0039		0.0039	0.00065	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Vinyl acetate	<0.0039		0.0039	0.00062	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Vinyl chloride	<0.0039		0.0039	0.00082	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1
Xylenes, Total	<0.0078		0.0078	0.00036	mg/Kg	☼	08/07/13 12:25	08/13/13 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	08/07/13 12:25	08/13/13 21:01	1
Dibromofluoromethane	101		75 - 120	08/07/13 12:25	08/13/13 21:01	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	08/07/13 12:25	08/13/13 21:01	1
Toluene-d8 (Surr)	104		75 - 122	08/07/13 12:25	08/13/13 21:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B05-2

Lab Sample ID: 500-60686-4

Date Collected: 08/07/13 12:25

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B05-2

Lab Sample ID: 500-60686-4

Date Collected: 08/07/13 12:25

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/16/13 07:11	08/20/13 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		30 - 110	08/16/13 07:11	08/20/13 18:01	1
Phenol-d5	46		31 - 110	08/16/13 07:11	08/20/13 18:01	1
Nitrobenzene-d5	50		30 - 115	08/16/13 07:11	08/20/13 18:01	1
2-Fluorobiphenyl	52		30 - 119	08/16/13 07:11	08/20/13 18:01	1
2,4,6-Tribromophenol	59		35 - 137	08/16/13 07:11	08/20/13 18:01	1
Terphenyl-d14	71		36 - 134	08/16/13 07:11	08/20/13 18:01	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00079	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
alpha-Chlordane	<0.0019		0.0019	0.00096	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
beta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
4,4'-DDE	<0.0019		0.0019	0.00032	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
Endosulfan I	<0.0019		0.0019	0.00083	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
gamma-Chlordane	<0.0019		0.0019	0.00050	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
Heptachlor	<0.0019		0.0019	0.00080	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
Heptachlor epoxide	<0.0019		0.0019	0.00068	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
Methoxychlor	<0.0095		0.0095	0.00037	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1
Toxaphene	<0.019		0.019	0.0080	mg/Kg	☼	08/15/13 19:54	08/18/13 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		56 - 128	08/15/13 19:54	08/18/13 16:49	1
Tetrachloro-m-xylene	86		45 - 112	08/15/13 19:54	08/18/13 16:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B05-2

Lab Sample ID: 500-60686-4

Date Collected: 08/07/13 12:25

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Arsenic	7.3		0.55	0.11	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Barium	37		0.55	0.059	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Beryllium	0.57		0.22	0.020	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Boron	7.8		2.8	0.12	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Cadmium	0.73		0.11	0.014	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Calcium	49000	B	11	3.0	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Chromium	15		0.55	0.064	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Cobalt	11		0.28	0.020	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Copper	22		0.55	0.049	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Iron	18000		11	4.6	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Lead	11		0.28	0.083	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Magnesium	25000	B	5.5	1.1	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Manganese	380	B	0.55	0.030	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Nickel	24		0.55	0.054	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Potassium	2200		28	1.7	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Sodium	150		55	7.4	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Thallium	0.27	J	0.55	0.23	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Vanadium	17		0.28	0.041	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Zinc	54		1.1	0.22	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1
Aluminum	8600	B	11	1.0	mg/Kg	☼	08/08/13 15:00	08/18/13 15:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/13 08:30	09/11/13 04:54	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 04:54	1
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 04:54	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 04:54	1
Manganese	0.69		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 04:54	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 04:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.98	B	0.50	0.010	mg/L		08/16/13 09:30	09/08/13 13:25	1
Beryllium	0.0054		0.0040	0.0040	mg/L		08/16/13 09:30	09/08/13 13:25	1
Boron	1.2		0.10	0.050	mg/L		08/16/13 09:30	09/08/13 13:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 09:30	09/08/13 13:25	1
Chromium	0.11		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:25	1
Cobalt	0.034		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:25	1
Iron	110		0.20	0.20	mg/L		08/16/13 09:30	09/08/13 13:25	1
Lead	0.050		0.0075	0.0050	mg/L		08/16/13 09:30	09/08/13 13:25	1
Manganese	0.49		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:25	1
Nickel	0.12		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:25	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 09:30	09/08/13 13:25	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:25	1
Zinc	0.88		0.10	0.020	mg/L		08/16/13 09:30	09/08/13 13:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B05-2

Lab Sample ID: 500-60686-4

Date Collected: 08/07/13 12:25

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 09:30	08/19/13 13:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 09:30	08/19/13 13:09	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00015	J	0.00020	0.000020	mg/L		08/16/13 16:00	08/19/13 10:22	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0090	mg/Kg	☼	08/13/13 13:00	08/14/13 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.40		0.200	0.200	SU			08/20/13 18:23	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B06-1

Lab Sample ID: 500-60686-5

Date Collected: 08/07/13 12:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1
Xylenes, Total	<0.0098		0.0098	0.00045	mg/Kg	☼	08/07/13 12:10	08/14/13 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	08/07/13 12:10	08/14/13 12:40	1
Dibromofluoromethane	99		75 - 120	08/07/13 12:10	08/14/13 12:40	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/07/13 12:10	08/14/13 12:40	1
Toluene-d8 (Surr)	100		75 - 122	08/07/13 12:10	08/14/13 12:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B06-1

Lab Sample ID: 500-60686-5

Date Collected: 08/07/13 12:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B06-1

Lab Sample ID: 500-60686-5

Date Collected: 08/07/13 12:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/16/13 07:11	08/20/13 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	30		30 - 110				08/16/13 07:11	08/20/13 18:21	1
Phenol-d5	36		31 - 110				08/16/13 07:11	08/20/13 18:21	1
Nitrobenzene-d5	37		30 - 115				08/16/13 07:11	08/20/13 18:21	1
2-Fluorobiphenyl	42		30 - 119				08/16/13 07:11	08/20/13 18:21	1
2,4,6-Tribromophenol	49		35 - 137				08/16/13 07:11	08/20/13 18:21	1
Terphenyl-d14	61		36 - 134				08/16/13 07:11	08/20/13 18:21	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00082	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
alpha-BHC	<0.0020		0.0020	0.00050	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
alpha-Chlordane	<0.0020		0.0020	0.0010	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
beta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
delta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
Endosulfan I	<0.0020		0.0020	0.00086	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
Endrin ketone	<0.0020		0.0020	0.00045	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00043	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
gamma-Chlordane	<0.0020		0.0020	0.00052	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
Heptachlor	<0.0020		0.0020	0.00083	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
Heptachlor epoxide	<0.0020		0.0020	0.00070	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
Methoxychlor	<0.0098		0.0098	0.00038	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
Toxaphene	<0.020		0.020	0.0083	mg/Kg	☼	08/15/13 19:54	08/18/13 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	80		56 - 128				08/15/13 19:54	08/18/13 18:27	1
Tetrachloro-m-xylene	82		45 - 112				08/15/13 19:54	08/18/13 18:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B06-1

Lab Sample ID: 500-60686-5

Date Collected: 08/07/13 12:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 81.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Arsenic	10		0.60	0.12	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Barium	84		0.60	0.065	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Beryllium	0.75		0.24	0.021	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Boron	2.7	J	3.0	0.13	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Cadmium	0.63		0.12	0.015	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Calcium	15000	B	12	3.3	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Chromium	18		0.60	0.070	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Cobalt	6.8		0.30	0.022	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Copper	23		0.60	0.054	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Iron	23000		12	5.0	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Lead	14		0.30	0.090	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Magnesium	9400	B	6.0	1.2	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Manganese	210	B	0.60	0.033	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Nickel	23		0.60	0.059	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Potassium	1300		30	1.8	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Sodium	180		60	8.1	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Thallium	0.32	J	0.60	0.25	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Vanadium	23		0.30	0.045	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Zinc	57		1.2	0.24	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1
Aluminum	12000	B	12	1.1	mg/Kg	☼	08/08/13 15:00	08/18/13 15:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68	B	0.50	0.010	mg/L		08/16/13 09:30	09/08/13 13:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 09:30	09/08/13 13:31	1
Boron	1.1		0.10	0.050	mg/L		08/16/13 09:30	09/08/13 13:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 09:30	09/08/13 13:31	1
Chromium	<0.025		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:31	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:31	1
Iron	3.5		0.20	0.20	mg/L		08/16/13 09:30	09/08/13 13:31	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	09/08/13 13:31	1
Manganese	0.016	J	0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:31	1
Nickel	<0.025		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:31	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 09:30	09/08/13 13:31	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:31	1
Zinc	0.58		0.10	0.020	mg/L		08/16/13 09:30	09/08/13 13:31	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 09:30	08/19/13 13:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 09:30	08/19/13 13:10	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/16/13 16:00	08/19/13 10:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B06-1

Lab Sample ID: 500-60686-5

Date Collected: 08/07/13 12:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 81.9

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0088	mg/Kg	☼	08/13/13 13:00	08/14/13 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.26		0.200	0.200	SU			08/20/13 18:25	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B06-2

Lab Sample ID: 500-60686-6

Date Collected: 08/07/13 12:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 83.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0086		0.0047	0.0020	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	08/07/13 12:10	08/14/13 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/07/13 12:10	08/14/13 13:51	1
Dibromofluoromethane	94		75 - 120	08/07/13 12:10	08/14/13 13:51	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/07/13 12:10	08/14/13 13:51	1
Toluene-d8 (Surr)	100		75 - 122	08/07/13 12:10	08/14/13 13:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B06-2

Lab Sample ID: 500-60686-6

Date Collected: 08/07/13 12:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 83.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B06-2

Lab Sample ID: 500-60686-6

Date Collected: 08/07/13 12:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 83.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/16/13 07:11	08/20/13 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	45		30 - 110	08/16/13 07:11	08/20/13 18:42	1
Phenol-d5	50		31 - 110	08/16/13 07:11	08/20/13 18:42	1
Nitrobenzene-d5	57		30 - 115	08/16/13 07:11	08/20/13 18:42	1
2-Fluorobiphenyl	60		30 - 119	08/16/13 07:11	08/20/13 18:42	1
2,4,6-Tribromophenol	69		35 - 137	08/16/13 07:11	08/20/13 18:42	1
Terphenyl-d14	77		36 - 134	08/16/13 07:11	08/20/13 18:42	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00082	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
alpha-BHC	<0.0020		0.0020	0.00050	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
alpha-Chlordane	<0.0020		0.0020	0.0010	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
beta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
4,4'-DDD	<0.0020		0.0020	0.00040	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
delta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
Endosulfan I	<0.0020		0.0020	0.00087	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
Endrin ketone	<0.0020		0.0020	0.00045	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00043	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
gamma-Chlordane	<0.0020		0.0020	0.00052	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
Heptachlor	<0.0020		0.0020	0.00083	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
Heptachlor epoxide	<0.0020		0.0020	0.00071	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
Methoxychlor	<0.0099		0.0099	0.00038	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1
Toxaphene	<0.020		0.020	0.0084	mg/Kg	☼	08/15/13 19:54	08/18/13 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		56 - 128	08/15/13 19:54	08/18/13 18:46	1
Tetrachloro-m-xylene	77		45 - 112	08/15/13 19:54	08/18/13 18:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B06-2

Lab Sample ID: 500-60686-6

Date Collected: 08/07/13 12:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 83.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Arsenic	11		0.59	0.12	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Barium	67		0.59	0.063	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Beryllium	0.35		0.23	0.021	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Boron	7.0		2.9	0.12	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Cadmium	0.73		0.12	0.015	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Calcium	54000	B	12	3.2	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Chromium	7.5		0.59	0.068	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Cobalt	12		0.29	0.021	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Copper	24		0.59	0.052	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Iron	15000		12	4.8	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Lead	15		0.29	0.088	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Magnesium	34000	B	5.9	1.2	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Manganese	1100	B	5.9	0.32	mg/Kg	☼	08/08/13 15:00	08/28/13 23:46	10
Nickel	23		0.59	0.058	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Potassium	1100		29	1.8	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Sodium	210		59	7.9	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Thallium	<0.59		0.59	0.25	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Vanadium	13		0.29	0.043	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Zinc	34		1.2	0.24	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1
Aluminum	3900	B	12	1.1	mg/Kg	☼	08/08/13 15:00	08/18/13 15:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 05:00	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.76	B	0.50	0.010	mg/L		08/16/13 09:30	09/08/13 13:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 09:30	09/08/13 13:37	1
Boron	1.2		0.10	0.050	mg/L		08/16/13 09:30	09/08/13 13:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 09:30	09/08/13 13:37	1
Chromium	<0.025		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:37	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:37	1
Iron	5.0		0.20	0.20	mg/L		08/16/13 09:30	09/08/13 13:37	1
Lead	0.0059	J	0.0075	0.0050	mg/L		08/16/13 09:30	09/08/13 13:37	1
Manganese	0.033		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:37	1
Nickel	<0.025		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:37	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 09:30	09/08/13 13:37	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:37	1
Zinc	0.63		0.10	0.020	mg/L		08/16/13 09:30	09/08/13 13:37	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 09:30	08/19/13 13:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 09:30	08/19/13 13:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B06-2

Lab Sample ID: 500-60686-6

Date Collected: 08/07/13 12:10

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/16/13 16:00	08/19/13 10:30	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.018	0.0085	mg/Kg	☼	08/13/13 13:00	08/14/13 12:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.20		0.200	0.200	SU			08/20/13 18:28	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B07-1

Lab Sample ID: 500-60686-7

Date Collected: 08/07/13 11:40

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0037		0.0037	0.0016	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Benzene	<0.0037		0.0037	0.00051	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Bromodichloromethane	<0.0037		0.0037	0.00064	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Bromoform	<0.0037		0.0037	0.00085	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Bromomethane	<0.0037		0.0037	0.0011	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Carbon disulfide	<0.0037		0.0037	0.00055	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Carbon tetrachloride	<0.0037		0.0037	0.00067	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Chlorobenzene	<0.0037		0.0037	0.00038	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Chloroethane	<0.0037		0.0037	0.0010	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Chloroform	<0.0037		0.0037	0.00043	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Chloromethane	<0.0037		0.0037	0.00078	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00052	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00049	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Dibromochloromethane	<0.0037		0.0037	0.00064	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
1,1-Dichloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
1,1,1-Dichloroethane	<0.0037		0.0037	0.00060	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
1,2-Dichloropropane	<0.0037		0.0037	0.00056	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.00049	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Ethylbenzene	<0.0037		0.0037	0.00075	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Methylene Chloride	<0.0037		0.0037	0.0010	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00097	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00061	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Styrene	<0.0037		0.0037	0.00049	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
1,1,1,2-Tetrachloroethane	<0.0037		0.0037	0.00075	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Tetrachloroethene	<0.0037		0.0037	0.00057	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Toluene	<0.0037		0.0037	0.00052	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00051	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.00066	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00050	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Trichloroethene	<0.0037		0.0037	0.00061	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Vinyl acetate	<0.0037		0.0037	0.00058	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Vinyl chloride	<0.0037		0.0037	0.00078	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1
Xylenes, Total	<0.0074		0.0074	0.00034	mg/Kg	☼	08/07/13 11:40	08/14/13 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/07/13 11:40	08/14/13 14:14	1
Dibromofluoromethane	94		75 - 120	08/07/13 11:40	08/14/13 14:14	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/07/13 11:40	08/14/13 14:14	1
Toluene-d8 (Surr)	97		75 - 122	08/07/13 11:40	08/14/13 14:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B07-1

Lab Sample ID: 500-60686-7

Date Collected: 08/07/13 11:40

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B07-1

Lab Sample ID: 500-60686-7

Date Collected: 08/07/13 11:40

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/16/13 07:11	08/20/13 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	29	X	30 - 110	08/16/13 07:11	08/20/13 19:02	1
Phenol-d5	36		31 - 110	08/16/13 07:11	08/20/13 19:02	1
Nitrobenzene-d5	36		30 - 115	08/16/13 07:11	08/20/13 19:02	1
2-Fluorobiphenyl	40		30 - 119	08/16/13 07:11	08/20/13 19:02	1
2,4,6-Tribromophenol	46		35 - 137	08/16/13 07:11	08/20/13 19:02	1
Terphenyl-d14	69		36 - 134	08/16/13 07:11	08/20/13 19:02	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00079	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
alpha-Chlordane	<0.0019		0.0019	0.00096	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
beta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
Endosulfan I	<0.0019		0.0019	0.00083	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
gamma-Chlordane	<0.0019		0.0019	0.00050	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
Heptachlor	<0.0019		0.0019	0.00080	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
Methoxychlor	<0.0094		0.0094	0.00037	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1
Toxaphene	<0.019		0.019	0.0080	mg/Kg	☼	08/15/13 19:54	08/18/13 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	81		56 - 128	08/15/13 19:54	08/18/13 19:06	1
Tetrachloro-m-xylene	93		45 - 112	08/15/13 19:54	08/18/13 19:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B07-1

Lab Sample ID: 500-60686-7

Date Collected: 08/07/13 11:40

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Arsenic	9.6		0.55	0.11	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Barium	41		0.55	0.059	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Beryllium	0.52		0.22	0.020	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Boron	6.5		2.8	0.12	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Cadmium	0.84		0.11	0.014	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Calcium	55000	B	11	3.0	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Chromium	13		0.55	0.064	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Cobalt	15		0.28	0.020	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Copper	27		0.55	0.049	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Iron	19000		11	4.6	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Lead	13		0.28	0.083	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Magnesium	27000	B	5.5	1.1	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Manganese	550	B	0.55	0.030	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Nickel	29		0.55	0.054	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Potassium	1700		28	1.7	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Sodium	160		55	7.4	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Thallium	0.43	J	0.55	0.23	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Vanadium	17		0.28	0.041	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Zinc	45		1.1	0.22	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1
Aluminum	7800	B	11	1.0	mg/Kg	☼	08/08/13 15:00	08/18/13 15:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 05:06	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 05:06	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.76	B	0.50	0.010	mg/L		08/16/13 09:30	09/08/13 13:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 09:30	09/08/13 13:43	1
Boron	1.1		0.10	0.050	mg/L		08/16/13 09:30	09/08/13 13:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 09:30	09/08/13 13:43	1
Chromium	0.022	J	0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:43	1
Cobalt	0.0051	J	0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:43	1
Iron	21		0.20	0.20	mg/L		08/16/13 09:30	09/08/13 13:43	1
Lead	0.014		0.0075	0.0050	mg/L		08/16/13 09:30	09/08/13 13:43	1
Manganese	0.083		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:43	1
Nickel	0.018	J	0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:43	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 09:30	09/08/13 13:43	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:43	1
Zinc	0.64		0.10	0.020	mg/L		08/16/13 09:30	09/08/13 13:43	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 09:30	08/19/13 13:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 09:30	08/19/13 13:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B07-1

Lab Sample ID: 500-60686-7

Date Collected: 08/07/13 11:40

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/16/13 16:00	08/19/13 10:32	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0085	mg/Kg	☼	08/13/13 13:00	08/14/13 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.48		0.200	0.200	SU			08/20/13 18:30	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B07-2

Lab Sample ID: 500-60686-8

Date Collected: 08/07/13 11:45

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	08/07/13 11:45	08/14/13 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	08/07/13 11:45	08/14/13 14:38	1
Dibromofluoromethane	97		75 - 120	08/07/13 11:45	08/14/13 14:38	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/07/13 11:45	08/14/13 14:38	1
Toluene-d8 (Surr)	103		75 - 122	08/07/13 11:45	08/14/13 14:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B07-2

Lab Sample ID: 500-60686-8

Date Collected: 08/07/13 11:45

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B07-2

Lab Sample ID: 500-60686-8

Date Collected: 08/07/13 11:45

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/16/13 07:11	08/20/13 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	44		30 - 110				08/16/13 07:11	08/20/13 19:21	1
Phenol-d5	49		31 - 110				08/16/13 07:11	08/20/13 19:21	1
Nitrobenzene-d5	44		30 - 115				08/16/13 07:11	08/20/13 19:21	1
2-Fluorobiphenyl	47		30 - 119				08/16/13 07:11	08/20/13 19:21	1
2,4,6-Tribromophenol	59		35 - 137				08/16/13 07:11	08/20/13 19:21	1
Terphenyl-d14	63		36 - 134				08/16/13 07:11	08/20/13 19:21	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0096		0.0096	0.0039	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
alpha-BHC	<0.0096		0.0096	0.0024	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
alpha-Chlordane	<0.0096		0.0096	0.0048	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
beta-BHC	<0.0096		0.0096	0.0029	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
4,4'-DDD	<0.0096		0.0096	0.0019	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
4,4'-DDE	<0.0096		0.0096	0.0016	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
4,4'-DDT	<0.0096		0.0096	0.0050	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
delta-BHC	<0.0096		0.0096	0.0030	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
Dieldrin	<0.0096		0.0096	0.0013	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
Endosulfan I	<0.0096		0.0096	0.0041	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
Endosulfan II	<0.0096		0.0096	0.0015	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
Endosulfan sulfate	<0.0096		0.0096	0.0017	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
Endrin	<0.0096		0.0096	0.0013	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
Endrin aldehyde	<0.0096		0.0096	0.0016	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
Endrin ketone	<0.0096		0.0096	0.0021	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
gamma-BHC (Lindane)	<0.0096		0.0096	0.0020	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
gamma-Chlordane	<0.0096		0.0096	0.0025	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
Heptachlor	<0.0096		0.0096	0.0040	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
Heptachlor epoxide	<0.0096		0.0096	0.0034	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
Methoxychlor	<0.047		0.047	0.0018	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
Toxaphene	<0.094		0.094	0.040	mg/Kg	☼	08/15/13 19:54	08/18/13 19:25	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		56 - 128				08/15/13 19:54	08/18/13 19:25	5
Tetrachloro-m-xylene	81		45 - 112				08/15/13 19:54	08/18/13 19:25	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B07-2

Lab Sample ID: 500-60686-8

Date Collected: 08/07/13 11:45

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 86.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Arsenic	8.9		0.58	0.12	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Barium	33		0.58	0.062	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Beryllium	0.50		0.23	0.020	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Boron	6.5		2.9	0.12	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Cadmium	0.72		0.12	0.015	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Calcium	54000	B	12	3.1	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Chromium	12		0.58	0.067	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Cobalt	9.1		0.29	0.021	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Copper	24		0.58	0.051	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Iron	19000		12	4.8	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Lead	12		0.29	0.086	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Magnesium	26000	B	5.8	1.2	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Manganese	370	B	0.58	0.031	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Nickel	22		0.58	0.057	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Potassium	1800		29	1.7	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Sodium	180		58	7.7	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Thallium	0.26	J	0.58	0.24	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Vanadium	16		0.29	0.043	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Zinc	46		1.2	0.23	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1
Aluminum	7100	B	12	1.1	mg/Kg	☼	08/08/13 15:00	08/18/13 15:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 05:12	1
Lead	0.0052	J	0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 05:12	1
Manganese	0.73		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 05:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.97	B	0.50	0.010	mg/L		08/16/13 09:30	09/08/13 13:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 09:30	09/08/13 13:50	1
Boron	1.3		0.10	0.050	mg/L		08/16/13 09:30	09/08/13 13:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 09:30	09/08/13 13:50	1
Chromium	0.058		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:50	1
Cobalt	0.021	J	0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:50	1
Iron	62		0.20	0.20	mg/L		08/16/13 09:30	09/08/13 13:50	1
Lead	0.033		0.0075	0.0050	mg/L		08/16/13 09:30	09/08/13 13:50	1
Manganese	0.32		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:50	1
Nickel	0.068		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:50	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 09:30	09/08/13 13:50	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:50	1
Zinc	0.84		0.10	0.020	mg/L		08/16/13 09:30	09/08/13 13:50	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 09:30	08/19/13 13:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 09:30	08/19/13 13:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B07-2

Lab Sample ID: 500-60686-8

Date Collected: 08/07/13 11:45

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000090	J	0.00020	0.000020	mg/L	—	08/16/13 16:00	08/19/13 10:34	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0088	mg/Kg	☼	08/13/13 13:00	08/14/13 12:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.23		0.200	0.200	SU	—		08/20/13 18:32	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B07-2 DUP

Lab Sample ID: 500-60686-9

Date Collected: 08/07/13 11:50

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Bromodichloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Bromoform	<0.0042		0.0042	0.00098	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Carbon tetrachloride	<0.0042		0.0042	0.00077	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Chloroform	<0.0042		0.0042	0.00049	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Chloromethane	<0.0042		0.0042	0.00089	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00060	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00056	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Dibromochloromethane	<0.0042		0.0042	0.00074	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
1,1,1-Dichloroethane	<0.0042		0.0042	0.00069	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00056	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Ethylbenzene	<0.0042		0.0042	0.00086	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00070	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Styrene	<0.0042		0.0042	0.00056	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
1,1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Tetrachloroethene	<0.0042		0.0042	0.00065	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00076	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00058	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Trichloroethene	<0.0042		0.0042	0.00070	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Vinyl acetate	<0.0042		0.0042	0.00067	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Vinyl chloride	<0.0042		0.0042	0.00089	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1
Xylenes, Total	<0.0085		0.0085	0.00038	mg/Kg	☼	08/07/13 11:50	08/14/13 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	08/07/13 11:50	08/14/13 15:02	1
Dibromofluoromethane	100		75 - 120	08/07/13 11:50	08/14/13 15:02	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/07/13 11:50	08/14/13 15:02	1
Toluene-d8 (Surr)	102		75 - 122	08/07/13 11:50	08/14/13 15:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B07-2 DUP

Lab Sample ID: 500-60686-9

Date Collected: 08/07/13 11:50

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Phenanthrene	0.025	J	0.036	0.015	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Pyrene	0.017	J	0.036	0.013	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Benzo[a]anthracene	0.013	J	0.036	0.0077	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B07-2 DUP

Lab Sample ID: 500-60686-9

Date Collected: 08/07/13 11:50

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.023	J	0.036	0.0083	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Di-n-octyl phthalate	0.11	J	0.18	0.074	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Benzo[b]fluoranthene	0.021	J	0.036	0.0071	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Benzo[k]fluoranthene	0.016	J	0.036	0.0087	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Benzo[a]pyrene	0.021	J	0.036	0.0067	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Indeno[1,2,3-cd]pyrene	0.015	J	0.036	0.012	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Dibenz[a,h]anthracene	0.011	J	0.036	0.010	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
Benzo[g,h,i]perylene	0.022	J	0.036	0.012	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/16/13 07:11	08/21/13 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	44		30 - 110	08/16/13 07:11	08/21/13 16:10	1
Phenol-d5	51		31 - 110	08/16/13 07:11	08/21/13 16:10	1
Nitrobenzene-d5	44		30 - 115	08/16/13 07:11	08/21/13 16:10	1
2-Fluorobiphenyl	57		30 - 119	08/16/13 07:11	08/21/13 16:10	1
2,4,6-Tribromophenol	59		35 - 137	08/16/13 07:11	08/21/13 16:10	1
Terphenyl-d14	91		36 - 134	08/16/13 07:11	08/21/13 16:10	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0018		0.0018	0.00075	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
alpha-BHC	<0.0018		0.0018	0.00046	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
alpha-Chlordane	<0.0018		0.0018	0.00091	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
beta-BHC	<0.0018		0.0018	0.00056	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
4,4'-DDD	<0.0018		0.0018	0.00036	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
4,4'-DDE	<0.0018		0.0018	0.00030	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
4,4'-DDT	<0.0018		0.0018	0.00095	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
delta-BHC	<0.0018		0.0018	0.00057	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
Dieldrin	<0.0018		0.0018	0.00025	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
Endosulfan I	<0.0018		0.0018	0.00079	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
Endosulfan II	<0.0018		0.0018	0.00029	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
Endosulfan sulfate	<0.0018		0.0018	0.00033	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
Endrin	<0.0018		0.0018	0.00025	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
Endrin aldehyde	<0.0018		0.0018	0.00030	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
Endrin ketone	<0.0018		0.0018	0.00041	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
gamma-BHC (Lindane)	<0.0018		0.0018	0.00039	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
gamma-Chlordane	<0.0018		0.0018	0.00047	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
Heptachlor	<0.0018		0.0018	0.00075	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
Heptachlor epoxide	<0.0018		0.0018	0.00064	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
Methoxychlor	<0.0089		0.0089	0.00035	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1
Toxaphene	<0.018		0.018	0.0076	mg/Kg	☼	08/15/13 19:54	08/18/13 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		56 - 128	08/15/13 19:54	08/18/13 20:05	1
Tetrachloro-m-xylene	79		45 - 112	08/15/13 19:54	08/18/13 20:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B07-2 DUP

Lab Sample ID: 500-60686-9

Date Collected: 08/07/13 11:50

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 88.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Arsenic	6.4		0.55	0.11	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Barium	22		0.55	0.059	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Beryllium	0.45		0.22	0.019	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Boron	6.8		2.7	0.11	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Cadmium	0.57		0.11	0.014	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Calcium	48000	B	11	3.0	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Chromium	12		0.55	0.063	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Cobalt	7.3		0.27	0.020	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Copper	23		0.55	0.049	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Iron	15000		11	4.5	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Lead	11		0.27	0.082	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Magnesium	26000	B	5.5	1.1	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Manganese	310	B	0.55	0.030	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Nickel	20		0.55	0.054	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Potassium	1900		27	1.6	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Sodium	180		55	7.3	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Thallium	0.42	J	0.55	0.23	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Vanadium	14		0.27	0.040	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Zinc	46		1.1	0.22	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1
Aluminum	6500	B	11	1.0	mg/Kg	☼	08/08/13 15:00	08/18/13 15:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 05:19	1
Lead	0.0050	J	0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 05:19	1
Manganese	0.86		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 05:19	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.83	B	0.50	0.010	mg/L		08/16/13 09:30	09/08/13 13:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 09:30	09/08/13 13:56	1
Boron	1.2		0.10	0.050	mg/L		08/16/13 09:30	09/08/13 13:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 09:30	09/08/13 13:56	1
Chromium	0.050		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:56	1
Cobalt	0.018	J	0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:56	1
Iron	45		0.20	0.20	mg/L		08/16/13 09:30	09/08/13 13:56	1
Lead	0.027		0.0075	0.0050	mg/L		08/16/13 09:30	09/08/13 13:56	1
Manganese	0.26		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:56	1
Nickel	0.051		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 13:56	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 09:30	09/08/13 13:56	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 13:56	1
Zinc	0.74		0.10	0.020	mg/L		08/16/13 09:30	09/08/13 13:56	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 09:30	08/19/13 13:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 09:30	08/19/13 13:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B07-2 DUP

Lab Sample ID: 500-60686-9

Date Collected: 08/07/13 11:50

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000054	J	0.00020	0.000020	mg/L	—	08/16/13 16:00	08/19/13 10:36	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0087	mg/Kg	☼	08/13/13 13:00	08/14/13 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.50		0.200	0.200	SU	—		08/20/13 18:34	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B08-1

Lab Sample ID: 500-60686-10

Date Collected: 08/07/13 11:20

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 87.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012		0.0046	0.0020	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Benzene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Dibromochloromethane	<0.0046		0.0046	0.00081	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00075	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Ethylbenzene	<0.0046		0.0046	0.00094	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00077	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Trichloroethene	<0.0046		0.0046	0.00077	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	08/07/13 11:20	08/14/13 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	08/07/13 11:20	08/14/13 15:25	1
Dibromofluoromethane	93		75 - 120	08/07/13 11:20	08/14/13 15:25	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/07/13 11:20	08/14/13 15:25	1
Toluene-d8 (Surr)	101		75 - 122	08/07/13 11:20	08/14/13 15:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B08-1

Lab Sample ID: 500-60686-10

Date Collected: 08/07/13 11:20

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B08-1

Lab Sample ID: 500-60686-10

Date Collected: 08/07/13 11:20

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Benzo[a]pyrene	<0.037		0.037	0.0069	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/16/13 07:11	08/20/13 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	39		30 - 110				08/16/13 07:11	08/20/13 20:00	1
Phenol-d5	45		31 - 110				08/16/13 07:11	08/20/13 20:00	1
Nitrobenzene-d5	43		30 - 115				08/16/13 07:11	08/20/13 20:00	1
2-Fluorobiphenyl	46		30 - 119				08/16/13 07:11	08/20/13 20:00	1
2,4,6-Tribromophenol	45		35 - 137				08/16/13 07:11	08/20/13 20:00	1
Terphenyl-d14	61		36 - 134				08/16/13 07:11	08/20/13 20:00	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
Endosulfan I	<0.0019		0.0019	0.00081	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
Methoxychlor	<0.0092		0.0092	0.00036	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
Toxaphene	<0.019		0.019	0.0078	mg/Kg	☼	08/15/13 19:54	08/18/13 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		56 - 128				08/15/13 19:54	08/18/13 20:24	1
Tetrachloro-m-xylene	77		45 - 112				08/15/13 19:54	08/18/13 20:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B08-1

Lab Sample ID: 500-60686-10

Date Collected: 08/07/13 11:20

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 87.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Arsenic	7.5		0.54	0.11	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Barium	30		0.54	0.058	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Beryllium	0.42		0.22	0.019	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Boron	6.9		2.7	0.11	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Cadmium	0.82		0.11	0.014	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Calcium	84000	B	110	29	mg/Kg	☼	08/08/13 15:00	08/28/13 23:52	10
Chromium	11		0.54	0.062	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Cobalt	9.6		0.27	0.019	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Copper	23		0.54	0.048	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Iron	16000		11	4.4	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Lead	12		0.27	0.080	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Magnesium	31000	B	5.4	1.1	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Manganese	390	B	0.54	0.029	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Nickel	20		0.54	0.053	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Potassium	1700		27	1.6	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Sodium	190		54	7.2	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Thallium	0.45	J	0.54	0.23	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Vanadium	14		0.27	0.040	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Zinc	49		1.1	0.22	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1
Aluminum	6300	B	11	0.99	mg/Kg	☼	08/08/13 15:00	08/18/13 16:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 05:25	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 05:25	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.86	B	0.50	0.010	mg/L		08/16/13 09:30	09/08/13 14:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 09:30	09/08/13 14:02	1
Boron	1.3		0.10	0.050	mg/L		08/16/13 09:30	09/08/13 14:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 09:30	09/08/13 14:02	1
Chromium	0.014	J	0.025	0.010	mg/L		08/16/13 09:30	09/08/13 14:02	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 14:02	1
Iron	10		0.20	0.20	mg/L		08/16/13 09:30	09/08/13 14:02	1
Lead	0.0093		0.0075	0.0050	mg/L		08/16/13 09:30	09/08/13 14:02	1
Manganese	0.056		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 14:02	1
Nickel	0.011	J	0.025	0.010	mg/L		08/16/13 09:30	09/08/13 14:02	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 09:30	09/08/13 14:02	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 14:02	1
Zinc	0.70		0.10	0.020	mg/L		08/16/13 09:30	09/08/13 14:02	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 09:30	08/19/13 13:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 09:30	08/19/13 13:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B08-1

Lab Sample ID: 500-60686-10

Date Collected: 08/07/13 11:20

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/16/13 16:00	08/19/13 10:38	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0086	mg/Kg	☼	08/13/13 13:00	08/14/13 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.42		0.200	0.200	SU			08/20/13 18:37	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B08-2

Lab Sample ID: 500-60686-11

Date Collected: 08/07/13 11:25

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 87.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0020	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	08/07/13 11:25	08/14/13 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	08/07/13 11:25	08/14/13 15:49	1
Dibromofluoromethane	100		75 - 120	08/07/13 11:25	08/14/13 15:49	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/07/13 11:25	08/14/13 15:49	1
Toluene-d8 (Surr)	101		75 - 122	08/07/13 11:25	08/14/13 15:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B08-2

Lab Sample ID: 500-60686-11

Date Collected: 08/07/13 11:25

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 87.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B08-2

Lab Sample ID: 500-60686-11

Date Collected: 08/07/13 11:25

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 87.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/16/13 07:11	08/21/13 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	25	X	30 - 110	08/16/13 07:11	08/21/13 16:28	1
Phenol-d5	31		31 - 110	08/16/13 07:11	08/21/13 16:28	1
Nitrobenzene-d5	30		30 - 115	08/16/13 07:11	08/21/13 16:28	1
2-Fluorobiphenyl	40		30 - 119	08/16/13 07:11	08/21/13 16:28	1
2,4,6-Tribromophenol	36		35 - 137	08/16/13 07:11	08/21/13 16:28	1
Terphenyl-d14	72		36 - 134	08/16/13 07:11	08/21/13 16:28	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
alpha-Chlordane	<0.0019		0.0019	0.00095	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
4,4'-DDT	<0.0019		0.0019	0.00099	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
Endosulfan I	<0.0019		0.0019	0.00082	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
Heptachlor	<0.0019		0.0019	0.00079	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	08/15/13 19:54	08/18/13 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	63		56 - 128	08/15/13 19:54	08/18/13 20:44	1
Tetrachloro-m-xylene	67		45 - 112	08/15/13 19:54	08/18/13 20:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B08-2

Lab Sample ID: 500-60686-11

Date Collected: 08/07/13 11:25

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 87.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Arsenic	7.8		0.56	0.11	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Barium	32		0.56	0.060	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Beryllium	0.52		0.22	0.020	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Boron	7.0		2.8	0.12	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Cadmium	0.63		0.11	0.014	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Calcium	46000	B	11	3.0	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Chromium	14		0.56	0.065	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Cobalt	9.1		0.28	0.020	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Copper	23		0.56	0.049	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Iron	18000		11	4.6	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Lead	12		0.28	0.083	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Magnesium	24000	B	5.6	1.1	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Manganese	360	B	0.56	0.030	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Nickel	22		0.56	0.055	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Potassium	1900		28	1.7	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Sodium	190		56	7.5	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Thallium	0.46	J	0.56	0.23	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Vanadium	16		0.28	0.041	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Zinc	44		1.1	0.22	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1
Aluminum	7700	B	11	1.0	mg/Kg	☼	08/08/13 15:00	08/18/13 16:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 05:31	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 05:31	1
Manganese	0.66		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 05:31	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.79	B	0.50	0.010	mg/L		08/16/13 09:30	09/08/13 14:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 09:30	09/08/13 14:08	1
Boron	1.1		0.10	0.050	mg/L		08/16/13 09:30	09/08/13 14:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 09:30	09/08/13 14:08	1
Chromium	0.060		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 14:08	1
Cobalt	0.020	J	0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 14:08	1
Iron	67		0.20	0.20	mg/L		08/16/13 09:30	09/08/13 14:08	1
Lead	0.034		0.0075	0.0050	mg/L		08/16/13 09:30	09/08/13 14:08	1
Manganese	0.33		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 14:08	1
Nickel	0.068		0.025	0.010	mg/L		08/16/13 09:30	09/08/13 14:08	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 09:30	09/08/13 14:08	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 09:30	09/08/13 14:08	1
Zinc	0.73		0.10	0.020	mg/L		08/16/13 09:30	09/08/13 14:08	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/13 08:30	09/11/13 13:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Client Sample ID: 846D-36-B08-2

Lab Sample ID: 500-60686-11

Date Collected: 08/07/13 11:25

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 09:30	08/19/13 13:17	1
Thallium	0.0021		0.0020	0.0020	mg/L		08/16/13 09:30	08/19/13 13:17	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000087	J	0.00020	0.000020	mg/L		08/16/13 16:00	08/19/13 10:40	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0090	mg/Kg	☼	08/13/13 13:00	08/14/13 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.25		0.200	0.200	SU			08/20/13 18:39	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63074-3
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/8/2013 3:45:06 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B01-1

Lab Sample ID: 500-63074-6

Date Collected: 09/16/13 14:15

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 81.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0020	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	09/16/13 14:15	09/18/13 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	09/16/13 14:15	09/18/13 15:24	1
Dibromofluoromethane	93		75 - 120	09/16/13 14:15	09/18/13 15:24	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/16/13 14:15	09/18/13 15:24	1
Toluene-d8 (Surr)	99		75 - 122	09/16/13 14:15	09/18/13 15:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	09/19/13 07:16	09/27/13 12:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/19/13 07:16	09/27/13 12:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 12:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 12:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B01-1

Lab Sample ID: 500-63074-6

Date Collected: 09/16/13 14:15

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 81.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Isophorone	<0.20		0.20	0.045	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Carbazole	<0.20		0.20	0.057	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Pyrene	<0.040		0.040	0.015	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	*	09/19/13 07:16	09/27/13 12:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B01-1

Lab Sample ID: 500-63074-6

Date Collected: 09/16/13 14:15

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 81.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	09/19/13 07:16	09/27/13 12:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	09/19/13 07:16	09/27/13 12:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/19/13 07:16	09/27/13 12:12	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	09/19/13 07:16	09/27/13 12:12	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	09/19/13 07:16	09/27/13 12:12	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	09/19/13 07:16	09/27/13 12:12	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	09/19/13 07:16	09/27/13 12:12	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	09/19/13 07:16	09/27/13 12:12	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 12:12	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	09/19/13 07:16	09/27/13 12:12	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	09/19/13 07:16	09/27/13 12:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		25 - 110				09/19/13 07:16	09/27/13 12:12	1
Phenol-d5	52		31 - 110				09/19/13 07:16	09/27/13 12:12	1
Nitrobenzene-d5	48		25 - 115				09/19/13 07:16	09/27/13 12:12	1
2-Fluorobiphenyl	47		25 - 119				09/19/13 07:16	09/27/13 12:12	1
2,4,6-Tribromophenol	62		35 - 137				09/19/13 07:16	09/27/13 12:12	1
Terphenyl-d14	54		36 - 134				09/19/13 07:16	09/27/13 12:12	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00084	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
alpha-BHC	<0.0021		0.0021	0.00051	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
alpha-Chlordane	<0.0021		0.0021	0.0010	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
beta-BHC	<0.0021		0.0021	0.00063	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
4,4'-DDD	<0.0021		0.0021	0.00040	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
4,4'-DDE	<0.0021		0.0021	0.00034	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
delta-BHC	<0.0021		0.0021	0.00064	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
Dieldrin	<0.0021		0.0021	0.00028	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
Endosulfan I	<0.0021		0.0021	0.00089	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
Endosulfan II	<0.0021		0.0021	0.00033	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
Endosulfan sulfate	<0.0021		0.0021	0.00037	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
Endrin	<0.0021		0.0021	0.00028	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
Endrin aldehyde	<0.0021		0.0021	0.00034	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
Endrin ketone	<0.0021		0.0021	0.00046	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
gamma-BHC (Lindane)	<0.0021		0.0021	0.00044	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
gamma-Chlordane	<0.0021		0.0021	0.00053	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
Heptachlor	<0.0021		0.0021	0.00085	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
Heptachlor epoxide	<0.0021		0.0021	0.00072	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
Methoxychlor	<0.010		0.010	0.00039	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
Toxaphene	<0.020		0.020	0.0085	mg/Kg	☼	09/18/13 07:30	09/25/13 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	63		56 - 128				09/18/13 07:30	09/25/13 20:32	1
Tetrachloro-m-xylene	46		45 - 112				09/18/13 07:30	09/25/13 20:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B01-1

Lab Sample ID: 500-63074-6

Date Collected: 09/16/13 14:15

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 81.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9000	B	11	1.0	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Arsenic	7.4		0.57	0.11	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Barium	40		0.57	0.061	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Beryllium	0.51		0.23	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Boron	3.3	B	2.8	0.12	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Cadmium	0.21	B	0.11	0.014	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Calcium	2500	B	11	3.1	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Chromium	15		0.57	0.066	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Cobalt	6.1		0.28	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Copper	22	B	0.57	0.050	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Iron	19000		11	4.7	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Lead	17		0.28	0.085	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Magnesium	3200		5.7	1.2	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Manganese	92		0.57	0.031	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Nickel	24		0.57	0.056	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Potassium	1400	B	28	1.7	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Selenium	0.30	J	0.57	0.20	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Sodium	400	B	57	7.6	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Thallium	0.29	J	0.57	0.24	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Vanadium	16		0.28	0.042	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1
Zinc	69		1.1	0.23	mg/Kg	☼	09/17/13 08:00	09/17/13 20:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/06/13 14:30	10/07/13 14:18	1
Boron	1.6	B	0.10	0.050	mg/L		10/06/13 14:30	10/07/13 14:18	1
Chromium	<0.025		0.025	0.010	mg/L		10/06/13 14:30	10/07/13 14:18	1
Iron	<0.20		0.20	0.20	mg/L		10/06/13 14:30	10/07/13 14:18	1
Lead	0.0054	J	0.0075	0.0050	mg/L		10/06/13 14:30	10/07/13 14:18	1
Manganese	0.20		0.025	0.010	mg/L		10/06/13 14:30	10/07/13 14:18	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.5	B	0.50	0.010	mg/L		09/27/13 08:00	10/03/13 01:11	1
Beryllium	0.0041		0.0040	0.0040	mg/L		09/27/13 08:00	10/03/13 01:11	1
Boron	2.5	B	0.10	0.050	mg/L		09/27/13 08:00	10/03/13 01:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/13 08:00	10/03/13 01:11	1
Chromium	0.10		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:11	1
Cobalt	0.019	J	0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 01:11	1
Iron	95		0.20	0.20	mg/L		09/27/13 08:00	10/03/13 01:11	1
Lead	0.044		0.0075	0.0050	mg/L		09/27/13 08:00	10/03/13 01:11	1
Manganese	0.30		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:11	1
Nickel	0.081		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:11	1
Selenium	<0.050		0.050	0.010	mg/L		09/27/13 08:00	10/03/13 01:11	1
Silver	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 01:11	1
Zinc	1.2	B	0.10	0.020	mg/L		09/27/13 08:00	10/03/13 01:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B01-1

Lab Sample ID: 500-63074-6

Date Collected: 09/16/13 14:15

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/06/13 14:30	10/07/13 14:59	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/27/13 08:00	09/30/13 11:36	1
Thallium	0.0027		0.0020	0.0020	mg/L		09/27/13 08:00	09/30/13 11:36	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J	0.00020	0.000020	mg/L		09/27/13 16:10	09/30/13 10:49	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.018	0.0084	mg/Kg	☼	09/17/13 13:45	09/18/13 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.06		0.200	0.200	SU			10/01/13 15:51	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B01-2

Lab Sample ID: 500-63074-7

Date Collected: 09/16/13 14:20

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015		0.0045	0.0020	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Methyl tert-butyl ether	0.0046		0.0045	0.00075	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	09/16/13 14:20	09/18/13 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/16/13 14:20	09/18/13 15:47	1
Dibromofluoromethane	98		75 - 120	09/16/13 14:20	09/18/13 15:47	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/16/13 14:20	09/18/13 15:47	1
Toluene-d8 (Surr)	96		75 - 122	09/16/13 14:20	09/18/13 15:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B01-2

Lab Sample ID: 500-63074-7

Date Collected: 09/16/13 14:20

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Acenaphthylene	<0.037		0.037	0.0087	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.092	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Anthracene	<0.037		0.037	0.0089	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Pyrene	0.019	J	0.037	0.014	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B01-2

Lab Sample ID: 500-63074-7

Date Collected: 09/16/13 14:20

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.037	0.0085	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Benzo[a]pyrene	<0.037		0.037	0.0069	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
Benzo[g,h,i]perylene	0.019	J	0.037	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/19/13 07:16	09/27/13 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		25 - 110	09/19/13 07:16	09/27/13 12:35	1
Phenol-d5	76		31 - 110	09/19/13 07:16	09/27/13 12:35	1
Nitrobenzene-d5	75		25 - 115	09/19/13 07:16	09/27/13 12:35	1
2-Fluorobiphenyl	71		25 - 119	09/19/13 07:16	09/27/13 12:35	1
2,4,6-Tribromophenol	80		35 - 137	09/19/13 07:16	09/27/13 12:35	1
Terphenyl-d14	79		36 - 134	09/19/13 07:16	09/27/13 12:35	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00081	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
alpha-Chlordane	<0.0020		0.0020	0.00099	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
Endosulfan I	<0.0020		0.0020	0.00085	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
Heptachlor	<0.0020		0.0020	0.00082	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
Methoxychlor	<0.0097		0.0097	0.00038	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1
Toxaphene	<0.019		0.019	0.0082	mg/Kg	☼	09/18/13 07:30	09/25/13 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	55	X	56 - 128	09/18/13 07:30	09/25/13 20:52	1
Tetrachloro-m-xylene	38	X	45 - 112	09/18/13 07:30	09/25/13 20:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B01-2

Lab Sample ID: 500-63074-7

Date Collected: 09/16/13 14:20

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 84.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9400	B	11	1.1	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Arsenic	6.1		0.57	0.11	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Barium	34		0.57	0.061	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Beryllium	0.49		0.23	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Boron	8.5	B	2.9	0.12	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Cadmium	0.17	B	0.11	0.015	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Calcium	71000	B	110	31	mg/Kg	☼	09/17/13 08:00	09/18/13 16:16	10
Chromium	16		0.57	0.066	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Cobalt	8.8		0.29	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Copper	21	B	0.57	0.051	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Iron	17000		11	4.7	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Lead	11		0.29	0.085	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Magnesium	20000		5.7	1.2	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Manganese	240		0.57	0.031	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Nickel	30		0.57	0.056	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Potassium	2000	B	29	1.7	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Selenium	0.53	J	0.57	0.20	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Sodium	150	B	57	7.7	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Thallium	0.24	J	0.57	0.24	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Vanadium	17		0.29	0.042	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1
Zinc	48		1.1	0.23	mg/Kg	☼	09/17/13 08:00	09/17/13 20:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/06/13 14:30	10/07/13 14:24	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/06/13 14:30	10/07/13 14:24	1
Manganese	1.5		0.025	0.010	mg/L		10/06/13 14:30	10/07/13 14:24	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.94	B	0.50	0.010	mg/L		09/27/13 08:00	10/03/13 01:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/13 08:00	10/03/13 01:17	1
Boron	1.7	B	0.10	0.050	mg/L		09/27/13 08:00	10/03/13 01:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/13 08:00	10/03/13 01:17	1
Chromium	0.033		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:17	1
Cobalt	0.011	J	0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 01:17	1
Iron	27		0.20	0.20	mg/L		09/27/13 08:00	10/03/13 01:17	1
Lead	0.015		0.0075	0.0050	mg/L		09/27/13 08:00	10/03/13 01:17	1
Manganese	0.23		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:17	1
Nickel	0.036		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:17	1
Selenium	<0.050		0.050	0.010	mg/L		09/27/13 08:00	10/03/13 01:17	1
Silver	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 01:17	1
Zinc	0.73	B	0.10	0.020	mg/L		09/27/13 08:00	10/03/13 01:17	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/27/13 08:00	09/30/13 11:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/27/13 08:00	09/30/13 11:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B01-2

Lab Sample ID: 500-63074-7

Date Collected: 09/16/13 14:20

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/27/13 16:10	09/30/13 10:51	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0080	mg/Kg	*	09/17/13 13:45	09/18/13 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.200	0.200	SU			10/01/13 15:49	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B10-1

Lab Sample ID: 500-63074-8

Date Collected: 09/16/13 13:05

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 87.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	09/16/13 13:05	09/18/13 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/16/13 13:05	09/18/13 16:10	1
Dibromofluoromethane	96		75 - 120	09/16/13 13:05	09/18/13 16:10	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/16/13 13:05	09/18/13 16:10	1
Toluene-d8 (Surr)	97		75 - 122	09/16/13 13:05	09/18/13 16:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/19/13 07:16	09/27/13 12:57	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/19/13 07:16	09/27/13 12:57	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/19/13 07:16	09/27/13 12:57	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/19/13 07:16	09/27/13 12:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B10-1

Lab Sample ID: 500-63074-8

Date Collected: 09/16/13 13:05

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Isophorone	<0.18		0.18	0.041	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Carbazole	<0.18		0.18	0.051	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Pyrene	<0.036		0.036	0.013	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	*	09/19/13 07:16	09/27/13 12:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B10-1

Lab Sample ID: 500-63074-8

Date Collected: 09/16/13 13:05

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	09/19/13 07:16	09/27/13 12:57	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/19/13 07:16	09/27/13 12:57	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 12:57	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	09/19/13 07:16	09/27/13 12:57	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	09/19/13 07:16	09/27/13 12:57	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	09/19/13 07:16	09/27/13 12:57	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	09/19/13 07:16	09/27/13 12:57	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 12:57	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/19/13 07:16	09/27/13 12:57	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 12:57	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	09/19/13 07:16	09/27/13 12:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		25 - 110				09/19/13 07:16	09/27/13 12:57	1
Phenol-d5	75		31 - 110				09/19/13 07:16	09/27/13 12:57	1
Nitrobenzene-d5	71		25 - 115				09/19/13 07:16	09/27/13 12:57	1
2-Fluorobiphenyl	68		25 - 119				09/19/13 07:16	09/27/13 12:57	1
2,4,6-Tribromophenol	83		35 - 137				09/19/13 07:16	09/27/13 12:57	1
Terphenyl-d14	78		36 - 134				09/19/13 07:16	09/27/13 12:57	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00076	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
alpha-BHC	<0.0019		0.0019	0.00046	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
alpha-Chlordane	<0.0019		0.0019	0.00092	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
beta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
4,4'-DDD	<0.0019		0.0019	0.00036	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
4,4'-DDE	<0.0019		0.0019	0.00030	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
4,4'-DDT	<0.0019		0.0019	0.00096	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
delta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
Endosulfan I	<0.0019		0.0019	0.00080	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
Endosulfan sulfate	<0.0019		0.0019	0.00033	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
Endrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
Endrin ketone	<0.0019		0.0019	0.00041	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
gamma-Chlordane	<0.0019		0.0019	0.00048	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
Heptachlor	<0.0019		0.0019	0.00077	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
Heptachlor epoxide	<0.0019		0.0019	0.00065	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
Methoxychlor	<0.0091		0.0091	0.00035	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
Toxaphene	<0.018		0.018	0.0077	mg/Kg	☼	09/18/13 07:30	09/25/13 21:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	60		56 - 128				09/18/13 07:30	09/25/13 21:12	1
Tetrachloro-m-xylene	49		45 - 112				09/18/13 07:30	09/25/13 21:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B10-1

Lab Sample ID: 500-63074-8

Date Collected: 09/16/13 13:05

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 87.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8300	B	11	1.0	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Antimony	0.45	J	1.1	0.45	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Arsenic	8.7		0.56	0.11	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Barium	42		0.56	0.060	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Beryllium	0.47		0.22	0.020	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Boron	6.5	B	2.8	0.12	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Cadmium	0.28	B	0.11	0.014	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Calcium	<110		110	30	mg/Kg	*	09/17/13 08:00	09/18/13 16:22	10
Chromium	14		0.56	0.065	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Cobalt	10		0.28	0.020	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Copper	27	B	0.56	0.050	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Iron	18000		11	4.6	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Lead	15		0.28	0.084	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Magnesium	23000		5.6	1.2	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Manganese	310		0.56	0.030	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Nickel	29		0.56	0.055	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Potassium	1300	B	28	1.7	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Selenium	0.26	J	0.56	0.20	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Silver	<0.28		0.28	0.020	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Sodium	95	B	56	7.5	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Thallium	0.40	J	0.56	0.24	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Vanadium	16		0.28	0.042	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1
Zinc	58		1.1	0.23	mg/Kg	*	09/17/13 08:00	09/17/13 20:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.6	B	0.10	0.050	mg/L		10/06/13 14:30	10/07/13 14:30	1
Iron	<0.20		0.20	0.20	mg/L		10/06/13 14:30	10/07/13 14:30	1
Lead	0.0051	J	0.0075	0.0050	mg/L		10/06/13 14:30	10/07/13 14:30	1
Manganese	0.18		0.025	0.010	mg/L		10/06/13 14:30	10/07/13 14:30	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1	B	0.50	0.010	mg/L		09/27/13 08:00	10/03/13 01:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/13 08:00	10/03/13 01:24	1
Boron	2.0	B	0.10	0.050	mg/L		09/27/13 08:00	10/03/13 01:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/13 08:00	10/03/13 01:24	1
Chromium	0.036		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:24	1
Cobalt	0.011	J	0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 01:24	1
Iron	34		0.20	0.20	mg/L		09/27/13 08:00	10/03/13 01:24	1
Lead	0.015		0.0075	0.0050	mg/L		09/27/13 08:00	10/03/13 01:24	1
Manganese	0.15		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:24	1
Nickel	0.037		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:24	1
Selenium	<0.050		0.050	0.010	mg/L		09/27/13 08:00	10/03/13 01:24	1
Silver	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 01:24	1
Zinc	0.83	B	0.10	0.020	mg/L		09/27/13 08:00	10/03/13 01:24	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/27/13 08:00	09/30/13 11:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B10-1

Lab Sample ID: 500-63074-8

Date Collected: 09/16/13 13:05

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/27/13 08:00	09/30/13 11:43	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000030	J	0.00020	0.000020	mg/L		09/27/13 16:10	09/30/13 10:53	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.017	0.0081	mg/Kg	☆	09/17/13 13:45	09/18/13 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.53		0.200	0.200	SU			10/01/13 15:47	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B10-2

Lab Sample ID: 500-63074-9

Date Collected: 09/16/13 13:10

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0095		0.0041	0.0018	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
1,1-Dichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	09/16/13 13:10	09/18/13 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/16/13 13:10	09/18/13 16:32	1
Dibromofluoromethane	98		75 - 120	09/16/13 13:10	09/18/13 16:32	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/16/13 13:10	09/18/13 16:32	1
Toluene-d8 (Surr)	96		75 - 122	09/16/13 13:10	09/18/13 16:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B10-2

Lab Sample ID: 500-63074-9

Date Collected: 09/16/13 13:10

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B10-2

Lab Sample ID: 500-63074-9

Date Collected: 09/16/13 13:10

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/19/13 07:16	09/27/13 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		25 - 110	09/19/13 07:16	09/27/13 13:20	1
Phenol-d5	72		31 - 110	09/19/13 07:16	09/27/13 13:20	1
Nitrobenzene-d5	70		25 - 115	09/19/13 07:16	09/27/13 13:20	1
2-Fluorobiphenyl	67		25 - 119	09/19/13 07:16	09/27/13 13:20	1
2,4,6-Tribromophenol	80		35 - 137	09/19/13 07:16	09/27/13 13:20	1
Terphenyl-d14	74		36 - 134	09/19/13 07:16	09/27/13 13:20	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00076	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
alpha-Chlordane	<0.0019		0.0019	0.00093	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
beta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
4,4'-DDE	<0.0019		0.0019	0.00030	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
4,4'-DDT	<0.0019		0.0019	0.00097	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
delta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
Endosulfan I	<0.0019		0.0019	0.00080	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
Endrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
gamma-Chlordane	<0.0019		0.0019	0.00048	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
Heptachlor	<0.0019		0.0019	0.00077	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
Heptachlor epoxide	<0.0019		0.0019	0.00065	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
Methoxychlor	<0.0091		0.0091	0.00036	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1
Toxaphene	<0.018		0.018	0.0077	mg/Kg	☼	09/18/13 07:30	09/25/13 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		56 - 128	09/18/13 07:30	09/25/13 21:51	1
Tetrachloro-m-xylene	48		45 - 112	09/18/13 07:30	09/25/13 21:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B10-2

Lab Sample ID: 500-63074-9

Date Collected: 09/16/13 13:10

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 85.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8700	B	11	1.1	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Antimony	0.52	J	1.1	0.46	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Arsenic	9.7		0.57	0.11	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Barium	43		0.57	0.061	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Beryllium	0.46		0.23	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Boron	7.8	B	2.9	0.12	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Cadmium	0.26	B	0.11	0.015	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Calcium	70000	B	110	31	mg/Kg	☼	09/17/13 08:00	09/18/13 16:29	10
Chromium	15		0.57	0.067	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Cobalt	17		0.29	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Copper	21	B	0.57	0.051	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Iron	19000		11	4.7	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Lead	14		0.29	0.085	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Magnesium	24000		5.7	1.2	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Manganese	450		0.57	0.031	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Nickel	36		0.57	0.056	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Potassium	1700	B	29	1.7	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Selenium	0.49	J	0.57	0.20	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Sodium	110	B	57	7.7	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Thallium	0.58		0.57	0.24	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Vanadium	16		0.29	0.042	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1
Zinc	60		1.1	0.23	mg/Kg	☼	09/17/13 08:00	09/17/13 20:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.5	B	0.10	0.050	mg/L		10/06/13 14:30	10/07/13 14:36	1
Iron	<0.20		0.20	0.20	mg/L		10/06/13 14:30	10/07/13 14:36	1
Lead	0.0051	J	0.0075	0.0050	mg/L		10/06/13 14:30	10/07/13 14:36	1
Manganese	0.82		0.025	0.010	mg/L		10/06/13 14:30	10/07/13 14:36	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.6	B	0.50	0.010	mg/L		09/27/13 08:00	10/03/13 01:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/13 08:00	10/03/13 01:45	1
Boron	2.9	B	0.10	0.050	mg/L		09/27/13 08:00	10/03/13 01:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/13 08:00	10/03/13 01:45	1
Chromium	0.073		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:45	1
Cobalt	0.018	J	0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 01:45	1
Iron	66		0.20	0.20	mg/L		09/27/13 08:00	10/03/13 01:45	1
Lead	0.032		0.0075	0.0050	mg/L		09/27/13 08:00	10/03/13 01:45	1
Manganese	0.33		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:45	1
Nickel	0.069		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:45	1
Selenium	<0.050		0.050	0.010	mg/L		09/27/13 08:00	10/03/13 01:45	1
Silver	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 01:45	1
Zinc	1.3	B	0.10	0.020	mg/L		09/27/13 08:00	10/03/13 01:45	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/27/13 08:00	09/30/13 11:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B10-2

Lab Sample ID: 500-63074-9

Date Collected: 09/16/13 13:10

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/27/13 08:00	09/30/13 11:47	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000063	J	0.00020	0.000020	mg/L		09/27/13 16:10	09/30/13 10:59	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0080	mg/Kg	☆	09/17/13 13:45	09/18/13 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.51		0.200	0.200	SU			10/01/13 15:45	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B11-1

Lab Sample ID: 500-63074-10

Date Collected: 09/16/13 12:50

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 90.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00061	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	09/16/13 12:50	09/18/13 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/16/13 12:50	09/18/13 16:55	1
Dibromofluoromethane	98		75 - 120	09/16/13 12:50	09/18/13 16:55	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/16/13 12:50	09/18/13 16:55	1
Toluene-d8 (Surr)	97		75 - 122	09/16/13 12:50	09/18/13 16:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B11-1

Lab Sample ID: 500-63074-10

Date Collected: 09/16/13 12:50

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 90.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Hexachlorocyclopentadiene	<0.71		0.71	0.16	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
2,4-Dinitrophenol	<0.71		0.71	0.18	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Acenaphthylene	<0.035		0.035	0.0081	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Hexachlorobenzene	<0.071		0.071	0.0070	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B11-1

Lab Sample ID: 500-63074-10

Date Collected: 09/16/13 12:50

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 90.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Benzo[b]fluoranthene	<0.035		0.035	0.0069	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Benzo[k]fluoranthene	<0.035		0.035	0.0084	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Benzo[a]pyrene	<0.035		0.035	0.0065	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	09/19/13 07:16	09/27/13 13:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		25 - 110				09/19/13 07:16	09/27/13 13:43	1
Phenol-d5	77		31 - 110				09/19/13 07:16	09/27/13 13:43	1
Nitrobenzene-d5	74		25 - 115				09/19/13 07:16	09/27/13 13:43	1
2-Fluorobiphenyl	70		25 - 119				09/19/13 07:16	09/27/13 13:43	1
2,4,6-Tribromophenol	79		35 - 137				09/19/13 07:16	09/27/13 13:43	1
Terphenyl-d14	77		36 - 134				09/19/13 07:16	09/27/13 13:43	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00075	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
alpha-BHC	<0.0019		0.0019	0.00046	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
alpha-Chlordane	<0.0019		0.0019	0.00092	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
beta-BHC	<0.0019		0.0019	0.00056	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
4,4'-DDD	<0.0019		0.0019	0.00036	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
4,4'-DDE	<0.0019		0.0019	0.00030	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
4,4'-DDT	<0.0019		0.0019	0.00096	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
delta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
Endosulfan I	<0.0019		0.0019	0.00080	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
Endosulfan sulfate	<0.0019		0.0019	0.00033	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
Endrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
Endrin ketone	<0.0019		0.0019	0.00041	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00039	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
gamma-Chlordane	<0.0019		0.0019	0.00048	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
Heptachlor	<0.0019		0.0019	0.00076	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
Heptachlor epoxide	<0.0019		0.0019	0.00065	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
Methoxychlor	<0.0090		0.0090	0.00035	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
Toxaphene	<0.018		0.018	0.0077	mg/Kg	☼	09/18/13 07:30	09/25/13 22:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		56 - 128				09/18/13 07:30	09/25/13 22:10	1
Tetrachloro-m-xylene	53		45 - 112				09/18/13 07:30	09/25/13 22:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B11-1

Lab Sample ID: 500-63074-10

Date Collected: 09/16/13 12:50

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 90.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7600	B	11	1.0	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Antimony	0.63	J	1.1	0.44	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Arsenic	9.1		0.55	0.11	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Barium	55		0.55	0.059	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Beryllium	0.43		0.22	0.019	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Boron	7.1	B	2.7	0.12	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Cadmium	0.27	B	0.11	0.014	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Calcium	70000	B	110	30	mg/Kg	☼	09/17/13 08:00	09/18/13 16:35	10
Chromium	12		0.55	0.064	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Cobalt	12		0.27	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Copper	25	B	0.55	0.049	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Iron	18000		11	4.5	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Lead	14		0.27	0.082	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Magnesium	26000		5.5	1.1	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Manganese	360		0.55	0.030	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Nickel	28		0.55	0.054	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Potassium	1200	B	27	1.7	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Selenium	0.30	J	0.55	0.20	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Sodium	120	B	55	7.4	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Thallium	0.45	J	0.55	0.23	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Vanadium	15		0.27	0.041	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1
Zinc	57		1.1	0.22	mg/Kg	☼	09/17/13 08:00	09/17/13 20:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/06/13 14:30	10/07/13 14:42	1
Iron	<0.20		0.20	0.20	mg/L		10/06/13 14:30	10/07/13 14:42	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	B	0.50	0.010	mg/L		09/27/13 08:00	10/03/13 01:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/13 08:00	10/03/13 01:51	1
Boron	2.0	B	0.10	0.050	mg/L		09/27/13 08:00	10/03/13 01:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/13 08:00	10/03/13 01:51	1
Chromium	0.013	J	0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:51	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 01:51	1
Iron	7.8		0.20	0.20	mg/L		09/27/13 08:00	10/03/13 01:51	1
Lead	0.0057	J	0.0075	0.0050	mg/L		09/27/13 08:00	10/03/13 01:51	1
Manganese	0.038		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:51	1
Nickel	0.010	J	0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:51	1
Selenium	<0.050		0.050	0.010	mg/L		09/27/13 08:00	10/03/13 01:51	1
Silver	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 01:51	1
Zinc	0.80	B	0.10	0.020	mg/L		09/27/13 08:00	10/03/13 01:51	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/27/13 08:00	09/30/13 11:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/27/13 08:00	09/30/13 11:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B11-1

Lab Sample ID: 500-63074-10

Date Collected: 09/16/13 12:50

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/27/13 16:10	09/30/13 11:01	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.017	0.0081	mg/Kg	☼	09/17/13 13:45	09/18/13 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.60		0.200	0.200	SU			10/01/13 15:32	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B11-2

Lab Sample ID: 500-63074-11

Date Collected: 09/16/13 12:55

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0040		0.0040	0.0017	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Bromoform	<0.0040		0.0040	0.00093	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Chloromethane	<0.0040		0.0040	0.00084	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
1,1-Dichloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
1,1-Dichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Ethylbenzene	<0.0040		0.0040	0.00081	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0011	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00066	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Tetrachloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Vinyl chloride	<0.0040		0.0040	0.00084	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1
Xylenes, Total	<0.0080		0.0080	0.00036	mg/Kg	☼	09/16/13 12:55	09/18/13 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/16/13 12:55	09/18/13 17:18	1
Dibromofluoromethane	102		75 - 120	09/16/13 12:55	09/18/13 17:18	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/16/13 12:55	09/18/13 17:18	1
Toluene-d8 (Surr)	96		75 - 122	09/16/13 12:55	09/18/13 17:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B11-2

Lab Sample ID: 500-63074-11

Date Collected: 09/16/13 12:55

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B11-2

Lab Sample ID: 500-63074-11

Date Collected: 09/16/13 12:55

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.0097	J	0.037	0.0084	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/19/13 07:16	09/27/13 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		25 - 110				09/19/13 07:16	09/27/13 14:05	1
Phenol-d5	65		31 - 110				09/19/13 07:16	09/27/13 14:05	1
Nitrobenzene-d5	60		25 - 115				09/19/13 07:16	09/27/13 14:05	1
2-Fluorobiphenyl	60		25 - 119				09/19/13 07:16	09/27/13 14:05	1
2,4,6-Tribromophenol	76		35 - 137				09/19/13 07:16	09/27/13 14:05	1
Terphenyl-d14	71		36 - 134				09/19/13 07:16	09/27/13 14:05	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
alpha-Chlordane	<0.0019		0.0019	0.00095	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
4,4'-DDT	<0.0019		0.0019	0.00099	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
Endosulfan I	<0.0019		0.0019	0.00082	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
Heptachlor	<0.0019		0.0019	0.00079	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	09/18/13 07:30	09/25/13 22:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		56 - 128				09/18/13 07:30	09/25/13 22:30	1
Tetrachloro-m-xylene	55		45 - 112				09/18/13 07:30	09/25/13 22:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B11-2

Lab Sample ID: 500-63074-11

Date Collected: 09/16/13 12:55

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 88.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7300	B	11	0.99	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Antimony	0.54	J	1.1	0.43	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Arsenic	6.8		0.54	0.11	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Barium	36		0.54	0.058	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Beryllium	0.39		0.22	0.019	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Boron	6.6	B	2.7	0.11	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Cadmium	0.25	B	0.11	0.014	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Calcium	76000	B	110	29	mg/Kg	☼	09/17/13 08:00	09/18/13 16:41	10
Chromium	12		0.54	0.063	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Cobalt	7.2		0.27	0.019	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Copper	24	B	0.54	0.048	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Iron	17000		11	4.4	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Lead	14		0.27	0.081	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Magnesium	25000		5.4	1.1	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Manganese	270		0.54	0.029	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Nickel	23		0.54	0.053	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Potassium	1300	B	27	1.6	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Selenium	0.37	J	0.54	0.19	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Sodium	170	B	54	7.2	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Thallium	0.24	J	0.54	0.23	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Vanadium	14		0.27	0.040	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1
Zinc	61		1.1	0.22	mg/Kg	☼	09/17/13 08:00	09/17/13 20:50	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.73	B	0.50	0.010	mg/L		09/27/13 08:00	10/03/13 01:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/13 08:00	10/03/13 01:57	1
Boron	1.5	B	0.10	0.050	mg/L		09/27/13 08:00	10/03/13 01:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/13 08:00	10/03/13 01:57	1
Chromium	<0.025		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:57	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 01:57	1
Iron	0.97		0.20	0.20	mg/L		09/27/13 08:00	10/03/13 01:57	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/27/13 08:00	10/03/13 01:57	1
Manganese	<0.025		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:57	1
Nickel	<0.025		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 01:57	1
Selenium	<0.050		0.050	0.010	mg/L		09/27/13 08:00	10/03/13 01:57	1
Silver	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 01:57	1
Zinc	0.59	B	0.10	0.020	mg/L		09/27/13 08:00	10/03/13 01:57	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/27/13 08:00	09/30/13 11:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/27/13 08:00	09/30/13 11:54	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/27/13 16:10	09/30/13 11:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Client Sample ID: 846D-36-B11-2

Lab Sample ID: 500-63074-11

Date Collected: 09/16/13 12:55

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 88.3

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.017	0.0079	mg/Kg	☼	09/17/13 13:45	09/18/13 09:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.18		0.200	0.200	SU			10/01/13 16:06	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US6/IL17 Weyerhaeuser Co. Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: AEZ	COC No.: 1 of 1 Lab Job No.: 500-63074 Sample Temp: 5, 4, 3, 6, 3, 7 Matrix Key:																																																																																																						
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES																																																																																																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>846D-36-B12-1</td> <td>9/16/13</td> <td>12:30</td> <td>S</td> </tr> <tr> <td>13</td> <td>846D-36-B12-2</td> <td></td> <td>12:35</td> <td>S</td> </tr> <tr> <td>14</td> <td>846D-36-B12-2 DUP</td> <td></td> <td>12:40</td> <td>S</td> </tr> <tr> <td>15</td> <td>846D-36-B13-1</td> <td></td> <td>12:10</td> <td>S</td> </tr> <tr> <td>16</td> <td>846D-36-B13-2</td> <td></td> <td>12:15</td> <td>S</td> </tr> </tbody> </table>	Lab ID	Sample ID	Sample Date	Sample Time	Matrix	12	846D-36-B12-1	9/16/13	12:30	S	13	846D-36-B12-2		12:35	S	14	846D-36-B12-2 DUP		12:40	S	15	846D-36-B13-1		12:10	S	16	846D-36-B13-2		12:15	S	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>VOCs</th> <th>SVOCs</th> <th>BTEX & MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-5'</td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>5-10'</td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>5-10'</td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-5'</td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>5-10'</td> </tr> </tbody> </table>			VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	X	X			X		X	X	X	X		0-5'	X	X			X		X	X	X	X		5-10'	X	X			X		X	X	X	X		5-10'	X	X			X		X	X	X	X		0-5'	X	X			X		X	X	X	X		5-10'
Lab ID	Sample ID	Sample Date	Sample Time	Matrix																																																																																																					
12	846D-36-B12-1	9/16/13	12:30	S																																																																																																					
13	846D-36-B12-2		12:35	S																																																																																																					
14	846D-36-B12-2 DUP		12:40	S																																																																																																					
15	846D-36-B13-1		12:10	S																																																																																																					
16	846D-36-B13-2		12:15	S																																																																																																					
VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments																																																																																														
X	X			X		X	X	X	X		0-5'																																																																																														
X	X			X		X	X	X	X		5-10'																																																																																														
X	X			X		X	X	X	X		5-10'																																																																																														
X	X			X		X	X	X	X		0-5'																																																																																														
X	X			X		X	X	X	X		5-10'																																																																																														
Relinquished by: <i>Fran [Signature]</i>		Received by: <i>[Signature]</i>																																																																																																							
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>																																																																																																							
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>																																																																																																							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62722-1
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/1/2013 4:23:19 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B02-1

Lab Sample ID: 500-62722-1

Date Collected: 09/10/13 14:25

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 80.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.041		0.0053	0.0023	mg/Kg	☼		09/11/13 16:11	1
Benzene	<0.0053		0.0053	0.00073	mg/Kg	☼		09/11/13 16:11	1
Bromodichloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼		09/11/13 16:11	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼		09/11/13 16:11	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼		09/11/13 16:11	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼		09/11/13 16:11	1
Carbon disulfide	<0.0053		0.0053	0.00080	mg/Kg	☼		09/11/13 16:11	1
Carbon tetrachloride	<0.0053		0.0053	0.00097	mg/Kg	☼		09/11/13 16:11	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼		09/11/13 16:11	1
Chloroethane	<0.0053		0.0053	0.0015	mg/Kg	☼		09/11/13 16:11	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼		09/11/13 16:11	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼		09/11/13 16:11	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼		09/11/13 16:11	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00070	mg/Kg	☼		09/11/13 16:11	1
Dibromochloromethane	<0.0053		0.0053	0.00093	mg/Kg	☼		09/11/13 16:11	1
1,1-Dichloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼		09/11/13 16:11	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼		09/11/13 16:11	1
1,1-Dichloroethene	<0.0053		0.0053	0.00086	mg/Kg	☼		09/11/13 16:11	1
1,2-Dichloropropane	<0.0053		0.0053	0.00081	mg/Kg	☼		09/11/13 16:11	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00070	mg/Kg	☼		09/11/13 16:11	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼		09/11/13 16:11	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼		09/11/13 16:11	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼		09/11/13 16:11	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼		09/11/13 16:11	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00088	mg/Kg	☼		09/11/13 16:11	1
Styrene	<0.0053		0.0053	0.00070	mg/Kg	☼		09/11/13 16:11	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼		09/11/13 16:11	1
Tetrachloroethene	<0.0053		0.0053	0.00082	mg/Kg	☼		09/11/13 16:11	1
Toluene	<0.0053		0.0053	0.00075	mg/Kg	☼		09/11/13 16:11	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼		09/11/13 16:11	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00096	mg/Kg	☼		09/11/13 16:11	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00080	mg/Kg	☼		09/11/13 16:11	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00073	mg/Kg	☼		09/11/13 16:11	1
Trichloroethene	<0.0053		0.0053	0.00088	mg/Kg	☼		09/11/13 16:11	1
Vinyl acetate	<0.0053		0.0053	0.00084	mg/Kg	☼		09/11/13 16:11	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼		09/11/13 16:11	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼		09/11/13 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		09/11/13 16:11	1
Dibromofluoromethane	104		75 - 120		09/11/13 16:11	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		09/11/13 16:11	1
Toluene-d8 (Surr)	96		75 - 122		09/11/13 16:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.065	mg/Kg	☼		09/24/13 13:22	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.060	mg/Kg	☼		09/24/13 13:22	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼		09/24/13 13:22	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼		09/24/13 13:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B02-1

Lab Sample ID: 500-62722-1

Date Collected: 09/10/13 14:25

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼		09/24/13 13:22	1
2-Methylphenol	<0.21		0.21	0.054	mg/Kg	☼		09/24/13 13:22	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.045	mg/Kg	☼		09/24/13 13:22	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼		09/24/13 13:22	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼		09/24/13 13:22	1
2-Chlorophenol	<0.21		0.21	0.058	mg/Kg	☼		09/24/13 13:22	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼		09/24/13 13:22	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼		09/24/13 13:22	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼		09/24/13 13:22	1
Isophorone	<0.21		0.21	0.045	mg/Kg	☼		09/24/13 13:22	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼		09/24/13 13:22	1
Hexachlorobutadiene	<0.21		0.21	0.053	mg/Kg	☼		09/24/13 13:22	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼		09/24/13 13:22	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼		09/24/13 13:22	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼		09/24/13 13:22	1
2,4,6-Trichlorophenol	<0.41		0.41	0.051	mg/Kg	☼		09/24/13 13:22	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼		09/24/13 13:22	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼		09/24/13 13:22	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼		09/24/13 13:22	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼		09/24/13 13:22	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼		09/24/13 13:22	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼		09/24/13 13:22	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼		09/24/13 13:22	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼		09/24/13 13:22	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼		09/24/13 13:22	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼		09/24/13 13:22	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼		09/24/13 13:22	1
Acenaphthylene	<0.041		0.041	0.0094	mg/Kg	☼		09/24/13 13:22	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼		09/24/13 13:22	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼		09/24/13 13:22	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼		09/24/13 13:22	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼		09/24/13 13:22	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼		09/24/13 13:22	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼		09/24/13 13:22	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼		09/24/13 13:22	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼		09/24/13 13:22	1
Diethyl phthalate	<0.21		0.21	0.068	mg/Kg	☼		09/24/13 13:22	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.064	mg/Kg	☼		09/24/13 13:22	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼		09/24/13 13:22	1
N-Nitrosodiphenylamine	<0.21		0.21	0.055	mg/Kg	☼		09/24/13 13:22	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.099	mg/Kg	☼		09/24/13 13:22	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼		09/24/13 13:22	1
Anthracene	<0.041		0.041	0.0096	mg/Kg	☼		09/24/13 13:22	1
Carbazole	<0.21		0.21	0.057	mg/Kg	☼		09/24/13 13:22	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼		09/24/13 13:22	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼		09/24/13 13:22	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼		09/24/13 13:22	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼		09/24/13 13:22	1
Benzo[a]anthracene	<0.041		0.041	0.0086	mg/Kg	☼		09/24/13 13:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B02-1

Lab Sample ID: 500-62722-1

Date Collected: 09/10/13 14:25

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.0092	mg/Kg	☼		09/24/13 13:22	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼		09/24/13 13:22	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼		09/24/13 13:22	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼		09/24/13 13:22	1
Benzo[b]fluoranthene	<0.041		0.041	0.0079	mg/Kg	☼		09/24/13 13:22	1
Benzo[k]fluoranthene	<0.041		0.041	0.0097	mg/Kg	☼		09/24/13 13:22	1
Benzo[a]pyrene	<0.041		0.041	0.0074	mg/Kg	☼		09/24/13 13:22	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼		09/24/13 13:22	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼		09/24/13 13:22	1
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼		09/24/13 13:22	1
3 & 4 Methylphenol	<0.21		0.21	0.077	mg/Kg	☼		09/24/13 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		25 - 110					09/24/13 13:22	1
Phenol-d5	50		31 - 110					09/24/13 13:22	1
Nitrobenzene-d5	52		25 - 115					09/24/13 13:22	1
2-Fluorobiphenyl	49		25 - 119					09/24/13 13:22	1
2,4,6-Tribromophenol	65		35 - 137					09/24/13 13:22	1
Terphenyl-d14	56		36 - 134					09/24/13 13:22	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021	*	0.0021	0.00085	mg/Kg	☼		09/24/13 17:24	1
alpha-BHC	<0.0021	*	0.0021	0.00052	mg/Kg	☼		09/24/13 17:24	1
alpha-Chlordane	<0.0021		0.0021	0.0010	mg/Kg	☼		09/24/13 17:24	1
beta-BHC	<0.0021	*	0.0021	0.00064	mg/Kg	☼		09/24/13 17:24	1
4,4'-DDD	<0.0021		0.0021	0.00041	mg/Kg	☼		09/24/13 17:24	1
4,4'-DDE	<0.0021	*	0.0021	0.00034	mg/Kg	☼		09/24/13 17:24	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼		09/24/13 17:24	1
delta-BHC	<0.0021		0.0021	0.00065	mg/Kg	☼		09/24/13 17:24	1
Dieldrin	<0.0021		0.0021	0.00028	mg/Kg	☼		09/24/13 17:24	1
Endosulfan I	<0.0021		0.0021	0.00090	mg/Kg	☼		09/24/13 17:24	1
Endosulfan II	<0.0021		0.0021	0.00033	mg/Kg	☼		09/24/13 17:24	1
Endosulfan sulfate	<0.0021		0.0021	0.00037	mg/Kg	☼		09/24/13 17:24	1
Endrin	<0.0021		0.0021	0.00028	mg/Kg	☼		09/24/13 17:24	1
Endrin aldehyde	<0.0021		0.0021	0.00035	mg/Kg	☼		09/24/13 17:24	1
Endrin ketone	<0.0021		0.0021	0.00046	mg/Kg	☼		09/24/13 17:24	1
gamma-BHC (Lindane)	<0.0021	*	0.0021	0.00044	mg/Kg	☼		09/24/13 17:24	1
gamma-Chlordane	<0.0021	*	0.0021	0.00054	mg/Kg	☼		09/24/13 17:24	1
Heptachlor	<0.0021	*	0.0021	0.00086	mg/Kg	☼		09/24/13 17:24	1
Heptachlor epoxide	<0.0021		0.0021	0.00073	mg/Kg	☼		09/24/13 17:24	1
Methoxychlor	<0.010		0.010	0.00040	mg/Kg	☼		09/24/13 17:24	1
Toxaphene	<0.021		0.021	0.0087	mg/Kg	☼		09/24/13 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	50	X	56 - 128					09/24/13 17:24	1
Tetrachloro-m-xylene	28	X	45 - 112					09/24/13 17:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B02-1

Lab Sample ID: 500-62722-1

Date Collected: 09/10/13 14:25

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 80.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000	B	12	1.1	mg/Kg	☼		09/29/13 16:20	1
Antimony	<1.2		1.2	0.49	mg/Kg	☼		09/29/13 16:20	1
Arsenic	10		0.61	0.12	mg/Kg	☼		09/29/13 16:20	1
Barium	62		0.61	0.066	mg/Kg	☼		09/29/13 16:20	1
Beryllium	0.65		0.25	0.022	mg/Kg	☼		09/29/13 16:20	1
Boron	2.1	J	3.1	0.13	mg/Kg	☼		09/29/13 16:20	1
Cadmium	0.23	B	0.12	0.016	mg/Kg	☼		09/29/13 16:20	1
Calcium	3100	B	12	3.3	mg/Kg	☼		09/29/13 16:20	1
Chromium	16		0.61	0.071	mg/Kg	☼		09/29/13 16:20	1
Cobalt	9.5		0.31	0.022	mg/Kg	☼		09/29/13 16:20	1
Copper	21	B	0.61	0.054	mg/Kg	☼		09/29/13 16:20	1
Iron	27000		12	5.0	mg/Kg	☼		09/29/13 16:20	1
Lead	21		0.31	0.091	mg/Kg	☼		09/29/13 16:20	1
Magnesium	3500	B	6.1	1.3	mg/Kg	☼		09/29/13 16:20	1
Manganese	230		0.61	0.033	mg/Kg	☼		09/29/13 16:20	1
Nickel	27		0.61	0.060	mg/Kg	☼		09/29/13 16:20	1
Potassium	980		31	1.8	mg/Kg	☼		09/29/13 16:20	1
Selenium	0.47	J	0.61	0.22	mg/Kg	☼		09/29/13 16:20	1
Silver	<0.31		0.31	0.022	mg/Kg	☼		09/29/13 16:20	1
Sodium	250	B	61	8.2	mg/Kg	☼		09/29/13 16:20	1
Thallium	<0.61		0.61	0.26	mg/Kg	☼		09/29/13 16:20	1
Vanadium	23		0.31	0.045	mg/Kg	☼		09/29/13 16:20	1
Zinc	81	B	1.2	0.25	mg/Kg	☼		09/29/13 16:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L			09/29/13 15:29	1
Chromium	<0.025		0.025	0.010	mg/L			09/29/13 15:29	1
Iron	<0.20		0.20	0.20	mg/L			09/29/13 15:29	1
Lead	<0.0075		0.0075	0.0050	mg/L			09/29/13 15:29	1
Manganese	0.21		0.025	0.010	mg/L			09/29/13 15:29	1
Nickel	<0.025		0.025	0.010	mg/L			09/29/13 15:29	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.54	B	0.50	0.010	mg/L			09/25/13 17:01	1
Beryllium	0.0047		0.0040	0.0040	mg/L			09/25/13 17:01	1
Boron	0.12	J B	0.20	0.050	mg/L			09/25/13 17:01	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L			09/25/13 17:01	1
Chromium	0.15		0.025	0.010	mg/L			09/25/13 17:01	1
Cobalt	0.024	J	0.025	0.0050	mg/L			09/25/13 17:01	1
Iron	140		0.20	0.20	mg/L			09/25/13 17:01	1
Lead	0.078		0.0075	0.0050	mg/L			09/25/13 17:01	1
Manganese	0.39		0.025	0.010	mg/L			09/25/13 17:01	1
Nickel	0.11		0.025	0.010	mg/L			09/25/13 17:01	1
Selenium	<0.050		0.050	0.010	mg/L			09/25/13 17:01	1
Silver	<0.025		0.025	0.0050	mg/L			09/25/13 17:01	1
Zinc	0.41	B	0.10	0.020	mg/L			09/25/13 17:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B02-1

Lab Sample ID: 500-62722-1

Date Collected: 09/10/13 14:25

Matrix: Solid

Date Received: 09/11/13 06:15

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	--		09/30/13 14:56	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L	--		09/24/13 11:20	1
Thallium	0.0028		0.0020	0.0020	mg/L	--		09/24/13 11:20	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00041		0.00020	0.000020	mg/L	--		09/24/13 11:20	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.082		0.019	0.0092	mg/Kg	☼		09/12/13 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.21		0.200	0.200	SU	--		09/20/13 15:22	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B02-2

Lab Sample ID: 500-62722-2

Date Collected: 09/10/13 14:30

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0073		0.0039	0.0017	mg/Kg	☼		09/11/13 16:34	1
Benzene	<0.0039		0.0039	0.00054	mg/Kg	☼		09/11/13 16:34	1
Bromodichloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼		09/11/13 16:34	1
Bromoform	<0.0039		0.0039	0.00090	mg/Kg	☼		09/11/13 16:34	1
Bromomethane	<0.0039		0.0039	0.0012	mg/Kg	☼		09/11/13 16:34	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼		09/11/13 16:34	1
Carbon disulfide	<0.0039		0.0039	0.00059	mg/Kg	☼		09/11/13 16:34	1
Carbon tetrachloride	<0.0039		0.0039	0.00071	mg/Kg	☼		09/11/13 16:34	1
Chlorobenzene	<0.0039		0.0039	0.00040	mg/Kg	☼		09/11/13 16:34	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼		09/11/13 16:34	1
Chloroform	<0.0039		0.0039	0.00045	mg/Kg	☼		09/11/13 16:34	1
Chloromethane	<0.0039		0.0039	0.00082	mg/Kg	☼		09/11/13 16:34	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00055	mg/Kg	☼		09/11/13 16:34	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00051	mg/Kg	☼		09/11/13 16:34	1
Dibromochloromethane	<0.0039		0.0039	0.00068	mg/Kg	☼		09/11/13 16:34	1
1,1-Dichloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼		09/11/13 16:34	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼		09/11/13 16:34	1
1,1-Dichloroethene	<0.0039		0.0039	0.00063	mg/Kg	☼		09/11/13 16:34	1
1,2-Dichloropropane	<0.0039		0.0039	0.00059	mg/Kg	☼		09/11/13 16:34	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.00051	mg/Kg	☼		09/11/13 16:34	1
Ethylbenzene	<0.0039		0.0039	0.00079	mg/Kg	☼		09/11/13 16:34	1
2-Hexanone	<0.0039		0.0039	0.0011	mg/Kg	☼		09/11/13 16:34	1
Methylene Chloride	<0.0039		0.0039	0.0011	mg/Kg	☼		09/11/13 16:34	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0010	mg/Kg	☼		09/11/13 16:34	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00065	mg/Kg	☼		09/11/13 16:34	1
Styrene	<0.0039		0.0039	0.00051	mg/Kg	☼		09/11/13 16:34	1
1,1,1,2-Tetrachloroethane	<0.0039		0.0039	0.00079	mg/Kg	☼		09/11/13 16:34	1
Tetrachloroethene	<0.0039		0.0039	0.00060	mg/Kg	☼		09/11/13 16:34	1
Toluene	<0.0039		0.0039	0.00055	mg/Kg	☼		09/11/13 16:34	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00054	mg/Kg	☼		09/11/13 16:34	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.00070	mg/Kg	☼		09/11/13 16:34	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00059	mg/Kg	☼		09/11/13 16:34	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00053	mg/Kg	☼		09/11/13 16:34	1
Trichloroethene	<0.0039		0.0039	0.00065	mg/Kg	☼		09/11/13 16:34	1
Vinyl acetate	<0.0039		0.0039	0.00062	mg/Kg	☼		09/11/13 16:34	1
Vinyl chloride	<0.0039		0.0039	0.00082	mg/Kg	☼		09/11/13 16:34	1
Xylenes, Total	<0.0078		0.0078	0.00036	mg/Kg	☼		09/11/13 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122		09/11/13 16:34	1
Dibromofluoromethane	102		75 - 120		09/11/13 16:34	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134		09/11/13 16:34	1
Toluene-d8 (Surr)	99		75 - 122		09/11/13 16:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼		09/24/13 12:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼		09/24/13 12:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼		09/24/13 12:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼		09/24/13 12:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B02-2

Lab Sample ID: 500-62722-2

Date Collected: 09/10/13 14:30

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼		09/24/13 12:29	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼		09/24/13 12:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼		09/24/13 12:29	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼		09/24/13 12:29	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼		09/24/13 12:29	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼		09/24/13 12:29	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼		09/24/13 12:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼		09/24/13 12:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼		09/24/13 12:29	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼		09/24/13 12:29	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼		09/24/13 12:29	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼		09/24/13 12:29	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼		09/24/13 12:29	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼		09/24/13 12:29	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼		09/24/13 12:29	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼		09/24/13 12:29	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼		09/24/13 12:29	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼		09/24/13 12:29	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼		09/24/13 12:29	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼		09/24/13 12:29	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼		09/24/13 12:29	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼		09/24/13 12:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼		09/24/13 12:29	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼		09/24/13 12:29	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼		09/24/13 12:29	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼		09/24/13 12:29	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼		09/24/13 12:29	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼		09/24/13 12:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼		09/24/13 12:29	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼		09/24/13 12:29	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼		09/24/13 12:29	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼		09/24/13 12:29	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼		09/24/13 12:29	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼		09/24/13 12:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼		09/24/13 12:29	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼		09/24/13 12:29	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼		09/24/13 12:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼		09/24/13 12:29	1
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼		09/24/13 12:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼		09/24/13 12:29	1
4,6-Dinitro-2-methylphenol	<0.38	*	0.38	0.093	mg/Kg	☼		09/24/13 12:29	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼		09/24/13 12:29	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼		09/24/13 12:29	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼		09/24/13 12:29	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼		09/24/13 12:29	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼		09/24/13 12:29	1
Pyrene	0.017	J	0.038	0.014	mg/Kg	☼		09/24/13 12:29	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼		09/24/13 12:29	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼		09/24/13 12:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B02-2

Lab Sample ID: 500-62722-2

Date Collected: 09/10/13 14:30

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.015	J	0.038	0.0087	mg/Kg	☼		09/24/13 12:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼		09/24/13 12:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼		09/24/13 12:29	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼		09/24/13 12:29	1
Benzo[b]fluoranthene	0.0088	J	0.038	0.0074	mg/Kg	☼		09/24/13 12:29	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼		09/24/13 12:29	1
Benzo[a]pyrene	0.0089	J	0.038	0.0070	mg/Kg	☼		09/24/13 12:29	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼		09/24/13 12:29	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼		09/24/13 12:29	1
Benzo[g,h,i]perylene	0.018	J	0.038	0.013	mg/Kg	☼		09/24/13 12:29	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼		09/24/13 12:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		25 - 110		09/24/13 12:29	1
Phenol-d5	57		31 - 110		09/24/13 12:29	1
Nitrobenzene-d5	52		25 - 115		09/24/13 12:29	1
2-Fluorobiphenyl	57		25 - 119		09/24/13 12:29	1
2,4,6-Tribromophenol	66		35 - 137		09/24/13 12:29	1
Terphenyl-d14	81		36 - 134		09/24/13 12:29	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0038	*	0.0038	0.0015	mg/Kg	☼		09/24/13 17:44	2
alpha-BHC	<0.0038	*	0.0038	0.00094	mg/Kg	☼		09/24/13 17:44	2
alpha-Chlordane	<0.0038		0.0038	0.0019	mg/Kg	☼		09/24/13 17:44	2
beta-BHC	<0.0038	*	0.0038	0.0012	mg/Kg	☼		09/24/13 17:44	2
4,4'-DDD	<0.0038		0.0038	0.00074	mg/Kg	☼		09/24/13 17:44	2
4,4'-DDE	<0.0038	*	0.0038	0.00062	mg/Kg	☼		09/24/13 17:44	2
4,4'-DDT	<0.0038		0.0038	0.0020	mg/Kg	☼		09/24/13 17:44	2
delta-BHC	<0.0038		0.0038	0.0012	mg/Kg	☼		09/24/13 17:44	2
Dieldrin	<0.0038		0.0038	0.00051	mg/Kg	☼		09/24/13 17:44	2
Endosulfan I	<0.0038		0.0038	0.0016	mg/Kg	☼		09/24/13 17:44	2
Endosulfan II	<0.0038		0.0038	0.00060	mg/Kg	☼		09/24/13 17:44	2
Endosulfan sulfate	<0.0038		0.0038	0.00068	mg/Kg	☼		09/24/13 17:44	2
Endrin	<0.0038		0.0038	0.00051	mg/Kg	☼		09/24/13 17:44	2
Endrin aldehyde	<0.0038		0.0038	0.00062	mg/Kg	☼		09/24/13 17:44	2
Endrin ketone	<0.0038		0.0038	0.00084	mg/Kg	☼		09/24/13 17:44	2
gamma-BHC (Lindane)	<0.0038	*	0.0038	0.00080	mg/Kg	☼		09/24/13 17:44	2
gamma-Chlordane	<0.0038	*	0.0038	0.00097	mg/Kg	☼		09/24/13 17:44	2
Heptachlor	<0.0038	*	0.0038	0.0016	mg/Kg	☼		09/24/13 17:44	2
Heptachlor epoxide	<0.0038		0.0038	0.0013	mg/Kg	☼		09/24/13 17:44	2
Methoxychlor	<0.018		0.018	0.00072	mg/Kg	☼		09/24/13 17:44	2
Toxaphene	<0.037		0.037	0.016	mg/Kg	☼		09/24/13 17:44	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	45	X	56 - 128		09/24/13 17:44	2
Tetrachloro-m-xylene	38	X	45 - 112		09/24/13 17:44	2

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B02-2

Lab Sample ID: 500-62722-2

Date Collected: 09/10/13 14:30

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 85.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5800	B	11	1.1	mg/Kg	☼		09/29/13 16:24	1
Antimony	0.50	J	1.1	0.46	mg/Kg	☼		09/29/13 16:24	1
Arsenic	5.1		0.57	0.11	mg/Kg	☼		09/29/13 16:24	1
Barium	21		0.57	0.061	mg/Kg	☼		09/29/13 16:24	1
Beryllium	0.37		0.23	0.020	mg/Kg	☼		09/29/13 16:24	1
Boron	7.6		2.9	0.12	mg/Kg	☼		09/29/13 16:24	1
Cadmium	0.20	B	0.11	0.015	mg/Kg	☼		09/29/13 16:24	1
Calcium	99000	B	110	31	mg/Kg	☼		09/30/13 10:17	10
Chromium	11		0.57	0.067	mg/Kg	☼		09/29/13 16:24	1
Cobalt	7.5		0.29	0.020	mg/Kg	☼		09/29/13 16:24	1
Copper	17	B	0.57	0.051	mg/Kg	☼		09/29/13 16:24	1
Iron	15000		11	4.7	mg/Kg	☼		09/29/13 16:24	1
Lead	11		0.29	0.085	mg/Kg	☼		09/29/13 16:24	1
Magnesium	44000	B	5.7	1.2	mg/Kg	☼		09/29/13 16:24	1
Manganese	740		0.57	0.031	mg/Kg	☼		09/29/13 16:24	1
Nickel	22		0.57	0.056	mg/Kg	☼		09/29/13 16:24	1
Potassium	1500		29	1.7	mg/Kg	☼		09/29/13 16:24	1
Selenium	0.34	J	0.57	0.20	mg/Kg	☼		09/29/13 16:24	1
Silver	0.070	J B	0.29	0.021	mg/Kg	☼		09/29/13 16:24	1
Sodium	160	B	57	7.7	mg/Kg	☼		09/29/13 16:24	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼		09/29/13 16:24	1
Vanadium	13		0.29	0.042	mg/Kg	☼		09/29/13 16:24	1
Zinc	43	B	1.1	0.23	mg/Kg	☼		09/29/13 16:24	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.21	J B	0.50	0.010	mg/L			09/25/13 17:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L			09/25/13 17:06	1
Boron	0.40	B	0.20	0.050	mg/L			09/25/13 17:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L			09/25/13 17:06	1
Chromium	<0.025		0.025	0.010	mg/L			09/25/13 17:06	1
Cobalt	<0.025		0.025	0.0050	mg/L			09/25/13 17:06	1
Iron	1.2		0.20	0.20	mg/L			09/25/13 17:06	1
Lead	0.0054	J	0.0075	0.0050	mg/L			09/25/13 17:06	1
Manganese	0.023	J	0.025	0.010	mg/L			09/25/13 17:06	1
Nickel	<0.025		0.025	0.010	mg/L			09/25/13 17:06	1
Selenium	<0.050		0.050	0.010	mg/L			09/25/13 17:06	1
Silver	<0.025		0.025	0.0050	mg/L			09/25/13 17:06	1
Zinc	0.28	B	0.10	0.020	mg/L			09/25/13 17:06	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L			09/24/13 11:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L			09/24/13 11:24	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L			09/24/13 11:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B02-2

Lab Sample ID: 500-62722-2

Date Collected: 09/10/13 14:30

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 85.4

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.017	0.0080	mg/Kg	☼		09/12/13 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.92		0.200	0.200	SU			09/20/13 15:28	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B02-2 DUP

Lab Sample ID: 500-62722-3

Date Collected: 09/10/13 14:35

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 84.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.010		0.0041	0.0018	mg/Kg	☼		09/11/13 16:56	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼		09/11/13 16:56	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼		09/11/13 16:56	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼		09/11/13 16:56	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼		09/11/13 16:56	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼		09/11/13 16:56	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼		09/11/13 16:56	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼		09/11/13 16:56	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼		09/11/13 16:56	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼		09/11/13 16:56	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼		09/11/13 16:56	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼		09/11/13 16:56	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼		09/11/13 16:56	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼		09/11/13 16:56	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼		09/11/13 16:56	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼		09/11/13 16:56	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼		09/11/13 16:56	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼		09/11/13 16:56	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼		09/11/13 16:56	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼		09/11/13 16:56	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼		09/11/13 16:56	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼		09/11/13 16:56	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼		09/11/13 16:56	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼		09/11/13 16:56	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼		09/11/13 16:56	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼		09/11/13 16:56	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼		09/11/13 16:56	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼		09/11/13 16:56	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼		09/11/13 16:56	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼		09/11/13 16:56	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼		09/11/13 16:56	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼		09/11/13 16:56	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼		09/11/13 16:56	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼		09/11/13 16:56	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼		09/11/13 16:56	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼		09/11/13 16:56	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼		09/11/13 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122		09/11/13 16:56	1
Dibromofluoromethane	105		75 - 120		09/11/13 16:56	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134		09/11/13 16:56	1
Toluene-d8 (Surr)	97		75 - 122		09/11/13 16:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼		09/25/13 14:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼		09/25/13 14:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼		09/25/13 14:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼		09/25/13 14:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B02-2 DUP

Lab Sample ID: 500-62722-3

Date Collected: 09/10/13 14:35

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼		09/25/13 14:13	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼		09/25/13 14:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼		09/25/13 14:13	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼		09/25/13 14:13	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼		09/25/13 14:13	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼		09/25/13 14:13	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼		09/25/13 14:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼		09/25/13 14:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼		09/25/13 14:13	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼		09/25/13 14:13	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼		09/25/13 14:13	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼		09/25/13 14:13	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼		09/25/13 14:13	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼		09/25/13 14:13	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼		09/25/13 14:13	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼		09/25/13 14:13	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼		09/25/13 14:13	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼		09/25/13 14:13	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼		09/25/13 14:13	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼		09/25/13 14:13	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼		09/25/13 14:13	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼		09/25/13 14:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼		09/25/13 14:13	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼		09/25/13 14:13	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼		09/25/13 14:13	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼		09/25/13 14:13	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼		09/25/13 14:13	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼		09/25/13 14:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼		09/25/13 14:13	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼		09/25/13 14:13	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼		09/25/13 14:13	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼		09/25/13 14:13	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼		09/25/13 14:13	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼		09/25/13 14:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼		09/25/13 14:13	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼		09/25/13 14:13	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼		09/25/13 14:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼		09/25/13 14:13	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼		09/25/13 14:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼		09/25/13 14:13	1
4,6-Dinitro-2-methylphenol	<0.37 *		0.37	0.090	mg/Kg	☼		09/25/13 14:13	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼		09/25/13 14:13	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼		09/25/13 14:13	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼		09/25/13 14:13	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼		09/25/13 14:13	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼		09/25/13 14:13	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼		09/25/13 14:13	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼		09/25/13 14:13	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼		09/25/13 14:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B02-2 DUP

Lab Sample ID: 500-62722-3

Date Collected: 09/10/13 14:35

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼		09/25/13 14:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼		09/25/13 14:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼		09/25/13 14:13	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼		09/25/13 14:13	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼		09/25/13 14:13	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼		09/25/13 14:13	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼		09/25/13 14:13	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼		09/25/13 14:13	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼		09/25/13 14:13	1
Benzo[g,h,i]perylene	0.022	J	0.037	0.013	mg/Kg	☼		09/25/13 14:13	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼		09/25/13 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		25 - 110		09/25/13 14:13	1
Phenol-d5	50		31 - 110		09/25/13 14:13	1
Nitrobenzene-d5	58		25 - 115		09/25/13 14:13	1
2-Fluorobiphenyl	57		25 - 119		09/25/13 14:13	1
2,4,6-Tribromophenol	60		35 - 137		09/25/13 14:13	1
Terphenyl-d14	104		36 - 134		09/25/13 14:13	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0039	*	0.0039	0.0016	mg/Kg	☼		09/24/13 18:03	2
alpha-BHC	<0.0039	*	0.0039	0.00097	mg/Kg	☼		09/24/13 18:03	2
alpha-Chlordane	<0.0039		0.0039	0.0019	mg/Kg	☼		09/24/13 18:03	2
beta-BHC	<0.0039	*	0.0039	0.0012	mg/Kg	☼		09/24/13 18:03	2
4,4'-DDD	<0.0039		0.0039	0.00076	mg/Kg	☼		09/24/13 18:03	2
4,4'-DDE	<0.0039	*	0.0039	0.00063	mg/Kg	☼		09/24/13 18:03	2
4,4'-DDT	<0.0039		0.0039	0.0020	mg/Kg	☼		09/24/13 18:03	2
delta-BHC	<0.0039		0.0039	0.0012	mg/Kg	☼		09/24/13 18:03	2
Dieldrin	<0.0039		0.0039	0.00052	mg/Kg	☼		09/24/13 18:03	2
Endosulfan I	<0.0039		0.0039	0.0017	mg/Kg	☼		09/24/13 18:03	2
Endosulfan II	<0.0039		0.0039	0.00062	mg/Kg	☼		09/24/13 18:03	2
Endosulfan sulfate	<0.0039		0.0039	0.00070	mg/Kg	☼		09/24/13 18:03	2
Endrin	<0.0039		0.0039	0.00053	mg/Kg	☼		09/24/13 18:03	2
Endrin aldehyde	<0.0039		0.0039	0.00064	mg/Kg	☼		09/24/13 18:03	2
Endrin ketone	<0.0039		0.0039	0.00086	mg/Kg	☼		09/24/13 18:03	2
gamma-BHC (Lindane)	<0.0039	*	0.0039	0.00083	mg/Kg	☼		09/24/13 18:03	2
gamma-Chlordane	<0.0039	*	0.0039	0.0010	mg/Kg	☼		09/24/13 18:03	2
Heptachlor	<0.0039	*	0.0039	0.0016	mg/Kg	☼		09/24/13 18:03	2
Heptachlor epoxide	<0.0039		0.0039	0.0014	mg/Kg	☼		09/24/13 18:03	2
Methoxychlor	<0.019		0.019	0.00074	mg/Kg	☼		09/24/13 18:03	2
Toxaphene	<0.038		0.038	0.016	mg/Kg	☼		09/24/13 18:03	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	57		56 - 128		09/24/13 18:03	2
Tetrachloro-m-xylene	41	X	45 - 112		09/24/13 18:03	2

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B02-2 DUP

Lab Sample ID: 500-62722-3

Date Collected: 09/10/13 14:35

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 84.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8700	B	11	1.0	mg/Kg	☼		09/29/13 16:29	1
Antimony	0.53	J	1.1	0.44	mg/Kg	☼		09/29/13 16:29	1
Arsenic	8.0		0.55	0.11	mg/Kg	☼		09/29/13 16:29	1
Barium	88		0.55	0.059	mg/Kg	☼		09/29/13 16:29	1
Beryllium	0.45		0.22	0.019	mg/Kg	☼		09/29/13 16:29	1
Boron	6.5		2.7	0.12	mg/Kg	☼		09/29/13 16:29	1
Cadmium	0.27	B	0.11	0.014	mg/Kg	☼		09/29/13 16:29	1
Calcium	46000	B	110	30	mg/Kg	☼		09/30/13 10:21	10
Chromium	15		0.55	0.064	mg/Kg	☼		09/29/13 16:29	1
Cobalt	14		0.27	0.020	mg/Kg	☼		09/29/13 16:29	1
Copper	25	B	0.55	0.049	mg/Kg	☼		09/29/13 16:29	1
Iron	20000		11	4.5	mg/Kg	☼		09/29/13 16:29	1
Lead	16		0.27	0.082	mg/Kg	☼		09/29/13 16:29	1
Magnesium	24000	B	5.5	1.1	mg/Kg	☼		09/29/13 16:29	1
Manganese	670		0.55	0.030	mg/Kg	☼		09/29/13 16:29	1
Nickel	36		0.55	0.054	mg/Kg	☼		09/29/13 16:29	1
Potassium	1600		27	1.7	mg/Kg	☼		09/29/13 16:29	1
Selenium	0.59		0.55	0.19	mg/Kg	☼		09/29/13 16:29	1
Silver	<0.27		0.27	0.020	mg/Kg	☼		09/29/13 16:29	1
Sodium	230	B	55	7.4	mg/Kg	☼		09/29/13 16:29	1
Thallium	0.43	J	0.55	0.23	mg/Kg	☼		09/29/13 16:29	1
Vanadium	18		0.27	0.041	mg/Kg	☼		09/29/13 16:29	1
Zinc	71	B	1.1	0.22	mg/Kg	☼		09/29/13 16:29	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.31	J B	0.50	0.010	mg/L			09/25/13 17:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L			09/25/13 17:30	1
Boron	0.58	B	0.20	0.050	mg/L			09/25/13 17:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L			09/25/13 17:30	1
Chromium	<0.025		0.025	0.010	mg/L			09/25/13 17:30	1
Cobalt	<0.025		0.025	0.0050	mg/L			09/25/13 17:30	1
Iron	<0.20		0.20	0.20	mg/L			09/25/13 17:30	1
Lead	<0.0075		0.0075	0.0050	mg/L			09/25/13 17:30	1
Manganese	0.043		0.025	0.010	mg/L			09/25/13 17:30	1
Nickel	<0.025		0.025	0.010	mg/L			09/25/13 17:30	1
Selenium	<0.050		0.050	0.010	mg/L			09/25/13 17:30	1
Silver	<0.025		0.025	0.0050	mg/L			09/25/13 17:30	1
Zinc	0.23	B	0.10	0.020	mg/L			09/25/13 17:30	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L			09/24/13 11:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L			09/24/13 11:46	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L			09/24/13 11:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B02-2 DUP

Lab Sample ID: 500-62722-3

Date Collected: 09/10/13 14:35

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 84.8

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.017	0.0081	mg/Kg	☼		09/12/13 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.31		0.200	0.200	SU			09/23/13 21:07	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B03-1

Lab Sample ID: 500-62722-4

Date Collected: 09/10/13 14:10

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼		09/11/13 17:19	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼		09/11/13 17:19	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼		09/11/13 17:19	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼		09/11/13 17:19	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼		09/11/13 17:19	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼		09/11/13 17:19	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼		09/11/13 17:19	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼		09/11/13 17:19	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼		09/11/13 17:19	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼		09/11/13 17:19	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼		09/11/13 17:19	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼		09/11/13 17:19	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼		09/11/13 17:19	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00058	mg/Kg	☼		09/11/13 17:19	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼		09/11/13 17:19	1
1,1-Dichloroethane	<0.0045		0.0045	0.00070	mg/Kg	☼		09/11/13 17:19	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼		09/11/13 17:19	1
1,1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼		09/11/13 17:19	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼		09/11/13 17:19	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00058	mg/Kg	☼		09/11/13 17:19	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼		09/11/13 17:19	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼		09/11/13 17:19	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼		09/11/13 17:19	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼		09/11/13 17:19	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼		09/11/13 17:19	1
Styrene	<0.0045		0.0045	0.00058	mg/Kg	☼		09/11/13 17:19	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼		09/11/13 17:19	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼		09/11/13 17:19	1
Toluene	<0.0045		0.0045	0.00062	mg/Kg	☼		09/11/13 17:19	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼		09/11/13 17:19	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼		09/11/13 17:19	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼		09/11/13 17:19	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼		09/11/13 17:19	1
Trichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼		09/11/13 17:19	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼		09/11/13 17:19	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼		09/11/13 17:19	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼		09/11/13 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		09/11/13 17:19	1
Dibromofluoromethane	100		75 - 120		09/11/13 17:19	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134		09/11/13 17:19	1
Toluene-d8 (Surr)	95		75 - 122		09/11/13 17:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼		09/25/13 14:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼		09/25/13 14:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼		09/25/13 14:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼		09/25/13 14:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B03-1

Lab Sample ID: 500-62722-4

Date Collected: 09/10/13 14:10

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼		09/25/13 14:33	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼		09/25/13 14:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼		09/25/13 14:33	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼		09/25/13 14:33	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼		09/25/13 14:33	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼		09/25/13 14:33	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼		09/25/13 14:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼		09/25/13 14:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼		09/25/13 14:33	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼		09/25/13 14:33	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼		09/25/13 14:33	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼		09/25/13 14:33	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼		09/25/13 14:33	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼		09/25/13 14:33	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼		09/25/13 14:33	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼		09/25/13 14:33	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼		09/25/13 14:33	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼		09/25/13 14:33	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼		09/25/13 14:33	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼		09/25/13 14:33	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼		09/25/13 14:33	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼		09/25/13 14:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼		09/25/13 14:33	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼		09/25/13 14:33	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼		09/25/13 14:33	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼		09/25/13 14:33	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼		09/25/13 14:33	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼		09/25/13 14:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼		09/25/13 14:33	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼		09/25/13 14:33	1
Dibenzofuran	<0.19		0.19	0.047	mg/Kg	☼		09/25/13 14:33	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼		09/25/13 14:33	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼		09/25/13 14:33	1
4-Nitroaniline	<0.39		0.39	0.079	mg/Kg	☼		09/25/13 14:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼		09/25/13 14:33	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼		09/25/13 14:33	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼		09/25/13 14:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼		09/25/13 14:33	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼		09/25/13 14:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼		09/25/13 14:33	1
4,6-Dinitro-2-methylphenol	<0.39 *		0.39	0.094	mg/Kg	☼		09/25/13 14:33	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼		09/25/13 14:33	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼		09/25/13 14:33	1
Carbazole	<0.19		0.19	0.055	mg/Kg	☼		09/25/13 14:33	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼		09/25/13 14:33	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼		09/25/13 14:33	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼		09/25/13 14:33	1
Butyl benzyl phthalate	<0.19		0.19	0.049	mg/Kg	☼		09/25/13 14:33	1
Benzo[a]anthracene	<0.039		0.039	0.0081	mg/Kg	☼		09/25/13 14:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B03-1

Lab Sample ID: 500-62722-4

Date Collected: 09/10/13 14:10

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼		09/25/13 14:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼		09/25/13 14:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼		09/25/13 14:33	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼		09/25/13 14:33	1
Benzo[b]fluoranthene	<0.039		0.039	0.0075	mg/Kg	☼		09/25/13 14:33	1
Benzo[k]fluoranthene	<0.039		0.039	0.0092	mg/Kg	☼		09/25/13 14:33	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼		09/25/13 14:33	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼		09/25/13 14:33	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼		09/25/13 14:33	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼		09/25/13 14:33	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼		09/25/13 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		25 - 110					09/25/13 14:33	1
Phenol-d5	44		31 - 110					09/25/13 14:33	1
Nitrobenzene-d5	56		25 - 115					09/25/13 14:33	1
2-Fluorobiphenyl	48		25 - 119					09/25/13 14:33	1
2,4,6-Tribromophenol	53		35 - 137					09/25/13 14:33	1
Terphenyl-d14	82		36 - 134					09/25/13 14:33	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021	*	0.0021	0.00085	mg/Kg	☼		09/24/13 18:42	1
alpha-BHC	<0.0021	*	0.0021	0.00052	mg/Kg	☼		09/24/13 18:42	1
alpha-Chlordane	<0.0021		0.0021	0.0010	mg/Kg	☼		09/24/13 18:42	1
beta-BHC	<0.0021	*	0.0021	0.00063	mg/Kg	☼		09/24/13 18:42	1
4,4'-DDD	<0.0021		0.0021	0.00041	mg/Kg	☼		09/24/13 18:42	1
4,4'-DDE	<0.0021	*	0.0021	0.00034	mg/Kg	☼		09/24/13 18:42	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼		09/24/13 18:42	1
delta-BHC	<0.0021		0.0021	0.00064	mg/Kg	☼		09/24/13 18:42	1
Dieldrin	<0.0021		0.0021	0.00028	mg/Kg	☼		09/24/13 18:42	1
Endosulfan I	<0.0021		0.0021	0.00089	mg/Kg	☼		09/24/13 18:42	1
Endosulfan II	<0.0021		0.0021	0.00033	mg/Kg	☼		09/24/13 18:42	1
Endosulfan sulfate	<0.0021		0.0021	0.00037	mg/Kg	☼		09/24/13 18:42	1
Endrin	<0.0021		0.0021	0.00028	mg/Kg	☼		09/24/13 18:42	1
Endrin aldehyde	<0.0021		0.0021	0.00034	mg/Kg	☼		09/24/13 18:42	1
Endrin ketone	<0.0021		0.0021	0.00046	mg/Kg	☼		09/24/13 18:42	1
gamma-BHC (Lindane)	<0.0021	*	0.0021	0.00044	mg/Kg	☼		09/24/13 18:42	1
gamma-Chlordane	<0.0021	*	0.0021	0.00053	mg/Kg	☼		09/24/13 18:42	1
Heptachlor	<0.0021	*	0.0021	0.00085	mg/Kg	☼		09/24/13 18:42	1
Heptachlor epoxide	<0.0021		0.0021	0.00072	mg/Kg	☼		09/24/13 18:42	1
Methoxychlor	<0.010		0.010	0.00040	mg/Kg	☼		09/24/13 18:42	1
Toxaphene	<0.020		0.020	0.0086	mg/Kg	☼		09/24/13 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	61		56 - 128					09/24/13 18:42	1
Tetrachloro-m-xylene	40	X	45 - 112					09/24/13 18:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B03-1

Lab Sample ID: 500-62722-4

Date Collected: 09/10/13 14:10

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 80.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9900	B	12	1.1	mg/Kg	☼		09/29/13 16:34	1
Antimony	<1.2		1.2	0.46	mg/Kg	☼		09/29/13 16:34	1
Arsenic	4.3		0.58	0.11	mg/Kg	☼		09/29/13 16:34	1
Barium	89		0.58	0.062	mg/Kg	☼		09/29/13 16:34	1
Beryllium	0.48		0.23	0.020	mg/Kg	☼		09/29/13 16:34	1
Boron	2.3	J	2.9	0.12	mg/Kg	☼		09/29/13 16:34	1
Cadmium	0.38	B	0.12	0.015	mg/Kg	☼		09/29/13 16:34	1
Calcium	3400	B	12	3.1	mg/Kg	☼		09/29/13 16:34	1
Chromium	16		0.58	0.067	mg/Kg	☼		09/29/13 16:34	1
Cobalt	16		0.29	0.021	mg/Kg	☼		09/29/13 16:34	1
Copper	17	B	0.58	0.051	mg/Kg	☼		09/29/13 16:34	1
Iron	16000		12	4.7	mg/Kg	☼		09/29/13 16:34	1
Lead	17		0.29	0.086	mg/Kg	☼		09/29/13 16:34	1
Magnesium	4000	B	5.8	1.2	mg/Kg	☼		09/29/13 16:34	1
Manganese	790		0.58	0.031	mg/Kg	☼		09/29/13 16:34	1
Nickel	34		0.58	0.056	mg/Kg	☼		09/29/13 16:34	1
Potassium	1000		29	1.7	mg/Kg	☼		09/29/13 16:34	1
Selenium	0.26	J	0.58	0.20	mg/Kg	☼		09/29/13 16:34	1
Silver	<0.29		0.29	0.021	mg/Kg	☼		09/29/13 16:34	1
Sodium	350	B	58	7.7	mg/Kg	☼		09/29/13 16:34	1
Thallium	0.29	J	0.58	0.24	mg/Kg	☼		09/29/13 16:34	1
Vanadium	16		0.29	0.043	mg/Kg	☼		09/29/13 16:34	1
Zinc	82	B	1.2	0.23	mg/Kg	☼		09/29/13 16:34	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40	J B	0.50	0.010	mg/L			09/25/13 17:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L			09/25/13 17:34	1
Boron	0.73	B	0.20	0.050	mg/L			09/25/13 17:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L			09/25/13 17:34	1
Chromium	<0.025		0.025	0.010	mg/L			09/25/13 17:34	1
Cobalt	<0.025		0.025	0.0050	mg/L			09/25/13 17:34	1
Iron	1.6		0.20	0.20	mg/L			09/25/13 17:34	1
Lead	<0.0075		0.0075	0.0050	mg/L			09/25/13 17:34	1
Manganese	0.010	J	0.025	0.010	mg/L			09/25/13 17:34	1
Nickel	<0.025		0.025	0.010	mg/L			09/25/13 17:34	1
Selenium	<0.050		0.050	0.010	mg/L			09/25/13 17:34	1
Silver	<0.025		0.025	0.0050	mg/L			09/25/13 17:34	1
Zinc	0.32	B	0.10	0.020	mg/L			09/25/13 17:34	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L			09/24/13 11:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L			09/24/13 11:49	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L			09/24/13 11:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B03-1

Lab Sample ID: 500-62722-4

Date Collected: 09/10/13 14:10

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 80.9

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.020	0.0093	mg/Kg	☼		09/12/13 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.51		0.200	0.200	SU			09/23/13 21:07	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B03-2

Lab Sample ID: 500-62722-5

Date Collected: 09/10/13 14:15

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼		09/11/13 17:42	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼		09/11/13 17:42	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼		09/11/13 17:42	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼		09/11/13 17:42	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼		09/11/13 17:42	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼		09/11/13 17:42	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼		09/11/13 17:42	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼		09/11/13 17:42	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼		09/11/13 17:42	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼		09/11/13 17:42	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼		09/11/13 17:42	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼		09/11/13 17:42	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼		09/11/13 17:42	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼		09/11/13 17:42	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼		09/11/13 17:42	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼		09/11/13 17:42	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼		09/11/13 17:42	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼		09/11/13 17:42	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼		09/11/13 17:42	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼		09/11/13 17:42	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼		09/11/13 17:42	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼		09/11/13 17:42	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼		09/11/13 17:42	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼		09/11/13 17:42	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼		09/11/13 17:42	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼		09/11/13 17:42	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼		09/11/13 17:42	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼		09/11/13 17:42	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼		09/11/13 17:42	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼		09/11/13 17:42	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼		09/11/13 17:42	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼		09/11/13 17:42	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼		09/11/13 17:42	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼		09/11/13 17:42	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼		09/11/13 17:42	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼		09/11/13 17:42	1
Xylenes, Total	<0.0096		0.0096	0.00044	mg/Kg	☼		09/11/13 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		09/11/13 17:42	1
Dibromofluoromethane	100		75 - 120		09/11/13 17:42	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		09/11/13 17:42	1
Toluene-d8 (Surr)	97		75 - 122		09/11/13 17:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼		09/25/13 14:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼		09/25/13 14:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼		09/25/13 14:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼		09/25/13 14:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B03-2

Lab Sample ID: 500-62722-5

Date Collected: 09/10/13 14:15

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼		09/25/13 14:53	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼		09/25/13 14:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼		09/25/13 14:53	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼		09/25/13 14:53	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼		09/25/13 14:53	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼		09/25/13 14:53	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼		09/25/13 14:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼		09/25/13 14:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼		09/25/13 14:53	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼		09/25/13 14:53	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼		09/25/13 14:53	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼		09/25/13 14:53	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼		09/25/13 14:53	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼		09/25/13 14:53	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼		09/25/13 14:53	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼		09/25/13 14:53	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼		09/25/13 14:53	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼		09/25/13 14:53	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼		09/25/13 14:53	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼		09/25/13 14:53	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼		09/25/13 14:53	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼		09/25/13 14:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼		09/25/13 14:53	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼		09/25/13 14:53	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼		09/25/13 14:53	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼		09/25/13 14:53	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼		09/25/13 14:53	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼		09/25/13 14:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼		09/25/13 14:53	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼		09/25/13 14:53	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼		09/25/13 14:53	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼		09/25/13 14:53	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼		09/25/13 14:53	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼		09/25/13 14:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼		09/25/13 14:53	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼		09/25/13 14:53	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼		09/25/13 14:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼		09/25/13 14:53	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼		09/25/13 14:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼		09/25/13 14:53	1
4,6-Dinitro-2-methylphenol	<0.37 *		0.37	0.091	mg/Kg	☼		09/25/13 14:53	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼		09/25/13 14:53	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼		09/25/13 14:53	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼		09/25/13 14:53	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼		09/25/13 14:53	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼		09/25/13 14:53	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼		09/25/13 14:53	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼		09/25/13 14:53	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼		09/25/13 14:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B03-2

Lab Sample ID: 500-62722-5

Date Collected: 09/10/13 14:15

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼		09/25/13 14:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼		09/25/13 14:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼		09/25/13 14:53	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼		09/25/13 14:53	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼		09/25/13 14:53	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼		09/25/13 14:53	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼		09/25/13 14:53	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼		09/25/13 14:53	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼		09/25/13 14:53	1
Benzo[g,h,i]perylene	0.019	J	0.037	0.013	mg/Kg	☼		09/25/13 14:53	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼		09/25/13 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		25 - 110		09/25/13 14:53	1
Phenol-d5	53		31 - 110		09/25/13 14:53	1
Nitrobenzene-d5	59		25 - 115		09/25/13 14:53	1
2-Fluorobiphenyl	60		25 - 119		09/25/13 14:53	1
2,4,6-Tribromophenol	62		35 - 137		09/25/13 14:53	1
Terphenyl-d14	102		36 - 134		09/25/13 14:53	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019	*	0.0019	0.00079	mg/Kg	☼		09/24/13 19:02	1
alpha-BHC	<0.0019	*	0.0019	0.00048	mg/Kg	☼		09/24/13 19:02	1
alpha-Chlordane	<0.0019		0.0019	0.00096	mg/Kg	☼		09/24/13 19:02	1
beta-BHC	<0.0019	*	0.0019	0.00059	mg/Kg	☼		09/24/13 19:02	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼		09/24/13 19:02	1
4,4'-DDE	<0.0019	*	0.0019	0.00031	mg/Kg	☼		09/24/13 19:02	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼		09/24/13 19:02	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼		09/24/13 19:02	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼		09/24/13 19:02	1
Endosulfan I	<0.0019		0.0019	0.00083	mg/Kg	☼		09/24/13 19:02	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼		09/24/13 19:02	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼		09/24/13 19:02	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼		09/24/13 19:02	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼		09/24/13 19:02	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼		09/24/13 19:02	1
gamma-BHC (Lindane)	<0.0019	*	0.0019	0.00041	mg/Kg	☼		09/24/13 19:02	1
gamma-Chlordane	<0.0019	*	0.0019	0.00050	mg/Kg	☼		09/24/13 19:02	1
Heptachlor	<0.0019	*	0.0019	0.00080	mg/Kg	☼		09/24/13 19:02	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼		09/24/13 19:02	1
Methoxychlor	<0.0094		0.0094	0.00037	mg/Kg	☼		09/24/13 19:02	1
Toxaphene	<0.019		0.019	0.0080	mg/Kg	☼		09/24/13 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		56 - 128		09/24/13 19:02	1
Tetrachloro-m-xylene	41	X	45 - 112		09/24/13 19:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B03-2

Lab Sample ID: 500-62722-5

Date Collected: 09/10/13 14:15

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 85.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8100	B	11	1.0	mg/Kg	☼		09/29/13 16:46	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼		09/29/13 16:46	1
Arsenic	8.0		0.56	0.11	mg/Kg	☼		09/29/13 16:46	1
Barium	65		0.56	0.059	mg/Kg	☼		09/29/13 16:46	1
Beryllium	0.43		0.22	0.020	mg/Kg	☼		09/29/13 16:46	1
Boron	6.8		2.8	0.12	mg/Kg	☼		09/29/13 16:46	1
Cadmium	0.25	B	0.11	0.014	mg/Kg	☼		09/29/13 16:46	1
Calcium	56000	B	110	30	mg/Kg	☼		09/30/13 10:25	10
Chromium	14		0.56	0.064	mg/Kg	☼		09/29/13 16:46	1
Cobalt	17		0.28	0.020	mg/Kg	☼		09/29/13 16:46	1
Copper	21	B	0.56	0.049	mg/Kg	☼		09/29/13 16:46	1
Iron	19000		11	4.6	mg/Kg	☼		09/29/13 16:46	1
Lead	15		0.28	0.083	mg/Kg	☼		09/29/13 16:46	1
Magnesium	24000	B	5.6	1.1	mg/Kg	☼		09/29/13 16:46	1
Manganese	610		0.56	0.030	mg/Kg	☼		09/29/13 16:46	1
Nickel	32		0.56	0.054	mg/Kg	☼		09/29/13 16:46	1
Potassium	1600		28	1.7	mg/Kg	☼		09/29/13 16:46	1
Selenium	0.39	J	0.56	0.20	mg/Kg	☼		09/29/13 16:46	1
Silver	<0.28		0.28	0.020	mg/Kg	☼		09/29/13 16:46	1
Sodium	130	B	56	7.4	mg/Kg	☼		09/29/13 16:46	1
Thallium	0.32	J	0.56	0.23	mg/Kg	☼		09/29/13 16:46	1
Vanadium	16		0.28	0.041	mg/Kg	☼		09/29/13 16:46	1
Zinc	64	B	1.1	0.22	mg/Kg	☼		09/29/13 16:46	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J B	0.50	0.010	mg/L			09/25/13 17:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L			09/25/13 17:38	1
Boron	0.36	B	0.20	0.050	mg/L			09/25/13 17:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L			09/25/13 17:38	1
Chromium	<0.025		0.025	0.010	mg/L			09/25/13 17:38	1
Cobalt	<0.025		0.025	0.0050	mg/L			09/25/13 17:38	1
Iron	4.9		0.20	0.20	mg/L			09/25/13 17:38	1
Lead	<0.0075		0.0075	0.0050	mg/L			09/25/13 17:38	1
Manganese	0.091		0.025	0.010	mg/L			09/25/13 17:38	1
Nickel	<0.025		0.025	0.010	mg/L			09/25/13 17:38	1
Selenium	<0.050		0.050	0.010	mg/L			09/25/13 17:38	1
Silver	<0.025		0.025	0.0050	mg/L			09/25/13 17:38	1
Zinc	0.14	B	0.10	0.020	mg/L			09/25/13 17:38	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L			09/24/13 11:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L			09/24/13 11:53	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L			09/24/13 11:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Client Sample ID: 846D-36-B03-2

Lab Sample ID: 500-62722-5

Date Collected: 09/10/13 14:15

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 85.4

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0082	mg/Kg	☼		09/12/13 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.23		0.200	0.200	SU			09/23/13 21:07	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	Duplicate RPD exceeds the control limit
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14747 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59874 Longitude: -87.97811

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1970505055 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)
 Latitude: 41.59874 Longitude: -87.97811

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 846D-37-B01 THROUGH -B04 WERE SAMPLED ADJACENT TO ISGS SITE NO. 846D-37. SEE FIGURE 7 AND TABLE 3ac OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS.: 500-62722-2 AND 500-63074-4

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

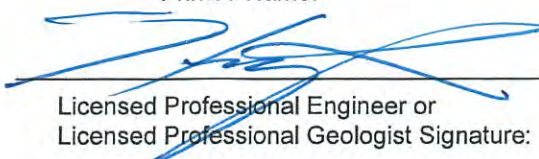
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

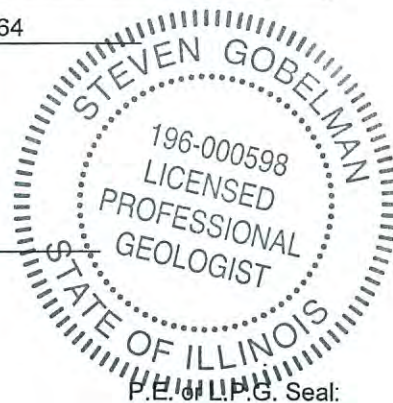
Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-37
Phillips 66

Sample ID	846D-37-B01	846D-37-B02	846D-37-B03	846D-37-B04						
Sample Depth (ft)	0-6	0-6	0-6	0-6						
Sample Date	9/16/2013	9/16/2013	9/10/2013	9/10/2013						
PID	0	0	0	0						
Sample pH	8.49	7.57	7.74	8.13						
Matrix	Soil	Soil	Soil	Soil						
¹ Most Stringent MAC ² Outside a Populated Area ³ Populated non-Metropolitan Statistical Area ⁴ Within Chicago Corporate Limits ⁵ Metropolitan Statistical Area ⁶ Class I Soil TCLP/SPLP Comparisons Only										
No Contaminants of Concern Noted.										

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63074-4
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/8/2013 3:45:46 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-4

Client Sample ID: 846D-37-B01

Lab Sample ID: 500-63074-17

Date Collected: 09/16/13 15:10

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 84.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0040		0.0040	0.0017	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Bromoform	<0.0040		0.0040	0.00092	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Chlorobenzene	<0.0040		0.0040	0.00040	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Chloromethane	<0.0040		0.0040	0.00084	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00052	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Dibromochloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
1,1-Dichloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
1,1-Dichloroethene	<0.0040		0.0040	0.00064	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
1,2-Dichloropropane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00052	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Ethylbenzene	<0.0040		0.0040	0.00080	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
2-Hexanone	<0.0040		0.0040	0.0011	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0010	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00066	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Styrene	<0.0040		0.0040	0.00052	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00080	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Tetrachloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00071	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00054	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Vinyl chloride	<0.0040		0.0040	0.00084	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1
Xylenes, Total	<0.0080		0.0080	0.00036	mg/Kg	☼	09/16/13 15:10	09/18/13 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/16/13 15:10	09/18/13 19:34	1
Dibromofluoromethane	99		75 - 120	09/16/13 15:10	09/18/13 19:34	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	09/16/13 15:10	09/18/13 19:34	1
Toluene-d8 (Surr)	95		75 - 122	09/16/13 15:10	09/18/13 19:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-4

Client Sample ID: 846D-37-B01

Lab Sample ID: 500-63074-17

Date Collected: 09/16/13 15:10

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-4

Client Sample ID: 846D-37-B01

Lab Sample ID: 500-63074-17

Date Collected: 09/16/13 15:10

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/19/13 07:16	09/27/13 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		25 - 110	09/19/13 07:16	09/27/13 16:46	1
Phenol-d5	62		31 - 110	09/19/13 07:16	09/27/13 16:46	1
Nitrobenzene-d5	55		25 - 115	09/19/13 07:16	09/27/13 16:46	1
2-Fluorobiphenyl	55		25 - 119	09/19/13 07:16	09/27/13 16:46	1
2,4,6-Tribromophenol	59		35 - 137	09/19/13 07:16	09/27/13 16:46	1
Terphenyl-d14	68		36 - 134	09/19/13 07:16	09/27/13 16:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8000	B	11	0.99	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Arsenic	6.7		0.54	0.11	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Barium	38		0.54	0.057	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Beryllium	0.42		0.21	0.019	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Boron	6.8	B	2.7	0.11	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Cadmium	0.22	B	0.11	0.014	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Calcium	71000	B	110	29	mg/Kg	☼	09/17/13 08:00	09/18/13 17:33	10
Chromium	13		0.54	0.062	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Cobalt	8.3		0.27	0.019	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Copper	19	B	0.54	0.048	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Iron	16000		11	4.4	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Lead	11		0.27	0.080	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Magnesium	32000		54	11	mg/Kg	☼	09/17/13 08:00	09/18/13 17:33	10
Manganese	260		0.54	0.029	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Nickel	25		0.54	0.053	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Potassium	1400	B	27	1.6	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Selenium	0.21	J	0.54	0.19	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Sodium	130	B	54	7.2	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Vanadium	15		0.27	0.040	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1
Zinc	48		1.1	0.22	mg/Kg	☼	09/17/13 08:00	09/17/13 21:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.5	B	0.10	0.050	mg/L		10/06/13 14:30	10/07/13 15:34	1
Iron	<0.20		0.20	0.20	mg/L		10/06/13 14:30	10/07/13 15:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-4

Client Sample ID: 846D-37-B01

Lab Sample ID: 500-63074-17

Date Collected: 09/16/13 15:10

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0077		0.0075	0.0050	mg/L		10/06/13 14:30	10/07/13 15:34	1
Manganese	0.55		0.025	0.010	mg/L		10/06/13 14:30	10/07/13 15:34	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2	B	0.50	0.010	mg/L		09/27/13 08:00	10/03/13 02:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/13 08:00	10/03/13 02:35	1
Boron	2.1	B	0.10	0.050	mg/L		09/27/13 08:00	10/03/13 02:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/13 08:00	10/03/13 02:35	1
Chromium	0.057		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 02:35	1
Cobalt	0.015	J	0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 02:35	1
Iron	53		0.20	0.20	mg/L		09/27/13 08:00	10/03/13 02:35	1
Lead	0.023		0.0075	0.0050	mg/L		09/27/13 08:00	10/03/13 02:35	1
Manganese	0.27		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 02:35	1
Nickel	0.057		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 02:35	1
Selenium	<0.050		0.050	0.010	mg/L		09/27/13 08:00	10/03/13 02:35	1
Silver	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 02:35	1
Zinc	0.92	B	0.10	0.020	mg/L		09/27/13 08:00	10/03/13 02:35	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/27/13 08:00	09/30/13 12:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/27/13 08:00	09/30/13 12:27	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000061	J	0.00020	0.000020	mg/L		09/27/13 16:10	09/30/13 11:14	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.018	0.0086	mg/Kg	☼	09/17/13 13:45	09/18/13 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.200	0.200	SU			10/01/13 15:59	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-4

Client Sample ID: 846D-37-B02

Lab Sample ID: 500-63074-18

Date Collected: 09/16/13 14:55

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 81.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.018		0.0044	0.0019	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	09/16/13 14:55	09/18/13 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/16/13 14:55	09/18/13 19:57	1
Dibromofluoromethane	98		75 - 120	09/16/13 14:55	09/18/13 19:57	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/16/13 14:55	09/18/13 19:57	1
Toluene-d8 (Surr)	94		75 - 122	09/16/13 14:55	09/18/13 19:57	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-4

Client Sample ID: 846D-37-B02

Lab Sample ID: 500-63074-18

Date Collected: 09/16/13 14:55

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-4

Client Sample ID: 846D-37-B02

Lab Sample ID: 500-63074-18

Date Collected: 09/16/13 14:55

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	09/19/13 07:16	09/27/13 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		25 - 110	09/19/13 07:16	09/27/13 17:08	1
Phenol-d5	60		31 - 110	09/19/13 07:16	09/27/13 17:08	1
Nitrobenzene-d5	57		25 - 115	09/19/13 07:16	09/27/13 17:08	1
2-Fluorobiphenyl	56		25 - 119	09/19/13 07:16	09/27/13 17:08	1
2,4,6-Tribromophenol	71		35 - 137	09/19/13 07:16	09/27/13 17:08	1
Terphenyl-d14	74		36 - 134	09/19/13 07:16	09/27/13 17:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000	B	12	1.1	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Arsenic	11		0.58	0.12	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Barium	82		0.58	0.062	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Beryllium	0.61		0.23	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Boron	3.3	B	2.9	0.12	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Cadmium	0.33	B	0.12	0.015	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Calcium	2100	B	12	3.1	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Chromium	17		0.58	0.067	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Cobalt	17		0.29	0.021	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Copper	25	B	0.58	0.051	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Iron	24000		12	4.8	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Lead	20		0.29	0.086	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Magnesium	46000		58	12	mg/Kg	☼	09/17/13 08:00	09/18/13 17:39	10
Manganese	530		0.58	0.031	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Nickel	40		0.58	0.057	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Potassium	1100	B	29	1.7	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Selenium	0.35	J	0.58	0.21	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Sodium	570	B	58	7.8	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Thallium	0.46	J	0.58	0.24	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Vanadium	21		0.29	0.043	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1
Zinc	72		1.2	0.23	mg/Kg	☼	09/17/13 08:00	09/17/13 21:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/06/13 14:30	10/07/13 15:40	1
Iron	0.35		0.20	0.20	mg/L		10/06/13 14:30	10/07/13 15:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-4

Client Sample ID: 846D-37-B02

Lab Sample ID: 500-63074-18

Date Collected: 09/16/13 14:55

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.024		0.0075	0.0050	mg/L		10/06/13 14:30	10/07/13 15:40	1
Manganese	11	H	0.25	0.10	mg/L		10/06/13 14:30	10/08/13 10:40	10
Nickel	0.020	J	0.025	0.010	mg/L		10/06/13 14:30	10/07/13 15:40	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2	B	0.50	0.010	mg/L		09/27/13 08:00	10/03/13 02:41	1
Beryllium	0.0048		0.0040	0.0040	mg/L		09/27/13 08:00	10/03/13 02:41	1
Boron	1.7	B	0.10	0.050	mg/L		09/27/13 08:00	10/03/13 02:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/13 08:00	10/03/13 02:41	1
Chromium	0.095		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 02:41	1
Cobalt	0.038		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 02:41	1
Iron	100		0.20	0.20	mg/L		09/27/13 08:00	10/03/13 02:41	1
Lead	0.052		0.0075	0.0050	mg/L		09/27/13 08:00	10/03/13 02:41	1
Manganese	1.0		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 02:41	1
Nickel	0.11		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 02:41	1
Selenium	<0.050		0.050	0.010	mg/L		09/27/13 08:00	10/03/13 02:41	1
Silver	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 02:41	1
Zinc	0.86	B	0.10	0.020	mg/L		09/27/13 08:00	10/03/13 02:41	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/06/13 14:30	10/07/13 15:10	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/27/13 08:00	09/30/13 12:30	1
Thallium	0.0024		0.0020	0.0020	mg/L		09/27/13 08:00	09/30/13 12:30	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.000020	mg/L		09/27/13 16:10	09/30/13 11:16	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.018	0.0084	mg/Kg	☼	09/17/13 13:45	09/18/13 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.57		0.200	0.200	SU			10/01/13 15:55	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-4

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62722-2
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/1/2013 4:24:05 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-2

Client Sample ID: 846D-37-B03

Lab Sample ID: 500-62722-6

Date Collected: 09/10/13 13:15

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 77.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.026		0.0047	0.0020	mg/Kg	☼		09/11/13 18:05	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼		09/11/13 18:05	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼		09/11/13 18:05	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼		09/11/13 18:05	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼		09/11/13 18:05	1
2-Butanone (MEK)	0.0034	J	0.0047	0.0017	mg/Kg	☼		09/11/13 18:05	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼		09/11/13 18:05	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼		09/11/13 18:05	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼		09/11/13 18:05	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼		09/11/13 18:05	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼		09/11/13 18:05	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼		09/11/13 18:05	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼		09/11/13 18:05	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼		09/11/13 18:05	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼		09/11/13 18:05	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼		09/11/13 18:05	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼		09/11/13 18:05	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼		09/11/13 18:05	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼		09/11/13 18:05	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼		09/11/13 18:05	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼		09/11/13 18:05	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼		09/11/13 18:05	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼		09/11/13 18:05	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼		09/11/13 18:05	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼		09/11/13 18:05	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼		09/11/13 18:05	1
1,1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼		09/11/13 18:05	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼		09/11/13 18:05	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼		09/11/13 18:05	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼		09/11/13 18:05	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼		09/11/13 18:05	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼		09/11/13 18:05	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼		09/11/13 18:05	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼		09/11/13 18:05	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼		09/11/13 18:05	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼		09/11/13 18:05	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼		09/11/13 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		09/11/13 18:05	1
Dibromofluoromethane	100		75 - 120		09/11/13 18:05	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134		09/11/13 18:05	1
Toluene-d8 (Surr)	97		75 - 122		09/11/13 18:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼		09/25/13 15:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼		09/25/13 15:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼		09/25/13 15:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼		09/25/13 15:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-2

Client Sample ID: 846D-37-B03

Lab Sample ID: 500-62722-6

Date Collected: 09/10/13 13:15

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 77.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼		09/25/13 15:13	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼		09/25/13 15:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼		09/25/13 15:13	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼		09/25/13 15:13	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼		09/25/13 15:13	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼		09/25/13 15:13	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼		09/25/13 15:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼		09/25/13 15:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼		09/25/13 15:13	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼		09/25/13 15:13	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼		09/25/13 15:13	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼		09/25/13 15:13	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼		09/25/13 15:13	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼		09/25/13 15:13	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼		09/25/13 15:13	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼		09/25/13 15:13	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼		09/25/13 15:13	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼		09/25/13 15:13	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼		09/25/13 15:13	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼		09/25/13 15:13	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼		09/25/13 15:13	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼		09/25/13 15:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼		09/25/13 15:13	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼		09/25/13 15:13	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼		09/25/13 15:13	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼		09/25/13 15:13	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼		09/25/13 15:13	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼		09/25/13 15:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼		09/25/13 15:13	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼		09/25/13 15:13	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼		09/25/13 15:13	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼		09/25/13 15:13	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼		09/25/13 15:13	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼		09/25/13 15:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼		09/25/13 15:13	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼		09/25/13 15:13	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼		09/25/13 15:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼		09/25/13 15:13	1
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼		09/25/13 15:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼		09/25/13 15:13	1
4,6-Dinitro-2-methylphenol	<0.40 *		0.40	0.098	mg/Kg	☼		09/25/13 15:13	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼		09/25/13 15:13	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼		09/25/13 15:13	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼		09/25/13 15:13	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼		09/25/13 15:13	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼		09/25/13 15:13	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼		09/25/13 15:13	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼		09/25/13 15:13	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼		09/25/13 15:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-2

Client Sample ID: 846D-37-B03

Lab Sample ID: 500-62722-6

Date Collected: 09/10/13 13:15

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 77.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼		09/25/13 15:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼		09/25/13 15:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼		09/25/13 15:13	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼		09/25/13 15:13	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼		09/25/13 15:13	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼		09/25/13 15:13	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼		09/25/13 15:13	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼		09/25/13 15:13	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼		09/25/13 15:13	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼		09/25/13 15:13	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼		09/25/13 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		25 - 110		09/25/13 15:13	1
Phenol-d5	49		31 - 110		09/25/13 15:13	1
Nitrobenzene-d5	49		25 - 115		09/25/13 15:13	1
2-Fluorobiphenyl	54		25 - 119		09/25/13 15:13	1
2,4,6-Tribromophenol	73		35 - 137		09/25/13 15:13	1
Terphenyl-d14	95		36 - 134		09/25/13 15:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	B	12	1.1	mg/Kg	☼		09/29/13 16:51	1
Antimony	<1.2		1.2	0.49	mg/Kg	☼		09/29/13 16:51	1
Arsenic	4.7		0.61	0.12	mg/Kg	☼		09/29/13 16:51	1
Barium	100		0.61	0.065	mg/Kg	☼		09/29/13 16:51	1
Beryllium	0.67		0.24	0.021	mg/Kg	☼		09/29/13 16:51	1
Boron	3.9		3.0	0.13	mg/Kg	☼		09/29/13 16:51	1
Cadmium	0.40	B	0.12	0.015	mg/Kg	☼		09/29/13 16:51	1
Calcium	7200	B	12	3.3	mg/Kg	☼		09/29/13 16:51	1
Chromium	15		0.61	0.071	mg/Kg	☼		09/29/13 16:51	1
Cobalt	9.1		0.30	0.022	mg/Kg	☼		09/29/13 16:51	1
Copper	18	B	0.61	0.054	mg/Kg	☼		09/29/13 16:51	1
Iron	15000		12	5.0	mg/Kg	☼		09/29/13 16:51	1
Lead	25		0.30	0.091	mg/Kg	☼		09/29/13 16:51	1
Magnesium	4300	B	6.1	1.3	mg/Kg	☼		09/29/13 16:51	1
Manganese	190		0.61	0.033	mg/Kg	☼		09/29/13 16:51	1
Nickel	20		0.61	0.060	mg/Kg	☼		09/29/13 16:51	1
Potassium	1000		30	1.8	mg/Kg	☼		09/29/13 16:51	1
Selenium	0.67		0.61	0.22	mg/Kg	☼		09/29/13 16:51	1
Silver	<0.30		0.30	0.022	mg/Kg	☼		09/29/13 16:51	1
Sodium	670	B	61	8.2	mg/Kg	☼		09/29/13 16:51	1
Thallium	<0.61		0.61	0.26	mg/Kg	☼		09/29/13 16:51	1
Vanadium	22		0.30	0.045	mg/Kg	☼		09/29/13 16:51	1
Zinc	79	B	1.2	0.25	mg/Kg	☼		09/29/13 16:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.35		0.20	0.20	mg/L	☼		09/29/13 15:54	1
Lead	<0.0075		0.0075	0.0050	mg/L	☼		09/29/13 15:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-2

Client Sample ID: 846D-37-B03

Lab Sample ID: 500-62722-6

Date Collected: 09/10/13 13:15

Matrix: Solid

Date Received: 09/11/13 06:15

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	4.6		0.025	0.010	mg/L			09/29/13 15:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.54	B	0.50	0.010	mg/L			09/25/13 17:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L			09/25/13 17:42	1
Boron	0.44	B	0.20	0.050	mg/L			09/25/13 17:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L			09/25/13 17:42	1
Chromium	0.053		0.025	0.010	mg/L			09/25/13 17:42	1
Cobalt	0.0093	J	0.025	0.0050	mg/L			09/25/13 17:42	1
Iron	42		0.20	0.20	mg/L			09/25/13 17:42	1
Lead	0.028		0.0075	0.0050	mg/L			09/25/13 17:42	1
Manganese	0.47		0.025	0.010	mg/L			09/25/13 17:42	1
Nickel	0.032		0.025	0.010	mg/L			09/25/13 17:42	1
Selenium	<0.050		0.050	0.010	mg/L			09/25/13 17:42	1
Silver	<0.025		0.025	0.0050	mg/L			09/25/13 17:42	1
Zinc	0.33	B	0.10	0.020	mg/L			09/25/13 17:42	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L			09/24/13 11:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L			09/24/13 11:56	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000083	J	0.00020	0.000020	mg/L			09/24/13 11:38	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057		0.021	0.0098	mg/Kg	☼		09/12/13 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.74		0.200	0.200	SU			09/23/13 21:07	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-2

Client Sample ID: 846D-37-B04

Lab Sample ID: 500-62722-7

Date Collected: 09/10/13 12:55

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 75.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011		0.0049	0.0021	mg/Kg	☼		09/11/13 18:27	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼		09/11/13 18:27	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼		09/11/13 18:27	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼		09/11/13 18:27	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼		09/11/13 18:27	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼		09/11/13 18:27	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼		09/11/13 18:27	1
Carbon tetrachloride	<0.0049		0.0049	0.00088	mg/Kg	☼		09/11/13 18:27	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼		09/11/13 18:27	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼		09/11/13 18:27	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼		09/11/13 18:27	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼		09/11/13 18:27	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼		09/11/13 18:27	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼		09/11/13 18:27	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼		09/11/13 18:27	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼		09/11/13 18:27	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼		09/11/13 18:27	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼		09/11/13 18:27	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼		09/11/13 18:27	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼		09/11/13 18:27	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼		09/11/13 18:27	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼		09/11/13 18:27	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼		09/11/13 18:27	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼		09/11/13 18:27	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼		09/11/13 18:27	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼		09/11/13 18:27	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼		09/11/13 18:27	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼		09/11/13 18:27	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼		09/11/13 18:27	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼		09/11/13 18:27	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼		09/11/13 18:27	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼		09/11/13 18:27	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼		09/11/13 18:27	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼		09/11/13 18:27	1
Vinyl acetate	<0.0049		0.0049	0.00076	mg/Kg	☼		09/11/13 18:27	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼		09/11/13 18:27	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼		09/11/13 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122		09/11/13 18:27	1
Dibromofluoromethane	103		75 - 120		09/11/13 18:27	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134		09/11/13 18:27	1
Toluene-d8 (Surr)	93		75 - 122		09/11/13 18:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.070	mg/Kg	☼		09/25/13 15:33	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.065	mg/Kg	☼		09/25/13 15:33	1
1,3-Dichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼		09/25/13 15:33	1
1,4-Dichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼		09/25/13 15:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-2

Client Sample ID: 846D-37-B04

Lab Sample ID: 500-62722-7

Date Collected: 09/10/13 12:55

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 75.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼		09/25/13 15:33	1
2-Methylphenol	<0.22		0.22	0.058	mg/Kg	☼		09/25/13 15:33	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.049	mg/Kg	☼		09/25/13 15:33	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.056	mg/Kg	☼		09/25/13 15:33	1
Hexachloroethane	<0.22		0.22	0.047	mg/Kg	☼		09/25/13 15:33	1
2-Chlorophenol	<0.22		0.22	0.063	mg/Kg	☼		09/25/13 15:33	1
Nitrobenzene	<0.044		0.044	0.014	mg/Kg	☼		09/25/13 15:33	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.049	mg/Kg	☼		09/25/13 15:33	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.050	mg/Kg	☼		09/25/13 15:33	1
Isophorone	<0.22		0.22	0.049	mg/Kg	☼		09/25/13 15:33	1
2,4-Dimethylphenol	<0.44		0.44	0.14	mg/Kg	☼		09/25/13 15:33	1
Hexachlorobutadiene	<0.22		0.22	0.057	mg/Kg	☼		09/25/13 15:33	1
Naphthalene	<0.044		0.044	0.0085	mg/Kg	☼		09/25/13 15:33	1
2,4-Dichlorophenol	<0.44		0.44	0.13	mg/Kg	☼		09/25/13 15:33	1
4-Chloroaniline	<0.89		0.89	0.13	mg/Kg	☼		09/25/13 15:33	1
2,4,6-Trichlorophenol	<0.44		0.44	0.055	mg/Kg	☼		09/25/13 15:33	1
2,4,5-Trichlorophenol	<0.44		0.44	0.13	mg/Kg	☼		09/25/13 15:33	1
Hexachlorocyclopentadiene	<0.89		0.89	0.20	mg/Kg	☼		09/25/13 15:33	1
2-Methylnaphthalene	<0.22		0.22	0.057	mg/Kg	☼		09/25/13 15:33	1
2-Nitroaniline	<0.22		0.22	0.079	mg/Kg	☼		09/25/13 15:33	1
2-Chloronaphthalene	<0.22		0.22	0.049	mg/Kg	☼		09/25/13 15:33	1
4-Chloro-3-methylphenol	<0.44		0.44	0.21	mg/Kg	☼		09/25/13 15:33	1
2,6-Dinitrotoluene	<0.22		0.22	0.052	mg/Kg	☼		09/25/13 15:33	1
2-Nitrophenol	<0.44		0.44	0.069	mg/Kg	☼		09/25/13 15:33	1
3-Nitroaniline	<0.44		0.44	0.085	mg/Kg	☼		09/25/13 15:33	1
Dimethyl phthalate	<0.22		0.22	0.055	mg/Kg	☼		09/25/13 15:33	1
2,4-Dinitrophenol	<0.89		0.89	0.22	mg/Kg	☼		09/25/13 15:33	1
Acenaphthylene	<0.044		0.044	0.010	mg/Kg	☼		09/25/13 15:33	1
2,4-Dinitrotoluene	<0.22		0.22	0.067	mg/Kg	☼		09/25/13 15:33	1
Acenaphthene	<0.044		0.044	0.013	mg/Kg	☼		09/25/13 15:33	1
Dibenzofuran	<0.22		0.22	0.053	mg/Kg	☼		09/25/13 15:33	1
4-Nitrophenol	<0.89		0.89	0.24	mg/Kg	☼		09/25/13 15:33	1
Fluorene	<0.044		0.044	0.010	mg/Kg	☼		09/25/13 15:33	1
4-Nitroaniline	<0.44		0.44	0.090	mg/Kg	☼		09/25/13 15:33	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.049	mg/Kg	☼		09/25/13 15:33	1
Hexachlorobenzene	<0.089		0.089	0.0086	mg/Kg	☼		09/25/13 15:33	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼		09/25/13 15:33	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.069	mg/Kg	☼		09/25/13 15:33	1
Pentachlorophenol	<0.89		0.89	0.22	mg/Kg	☼		09/25/13 15:33	1
N-Nitrosodiphenylamine	<0.22		0.22	0.059	mg/Kg	☼		09/25/13 15:33	1
4,6-Dinitro-2-methylphenol	<0.44 *		0.44	0.11	mg/Kg	☼		09/25/13 15:33	1
Phenanthrene	<0.044		0.044	0.018	mg/Kg	☼		09/25/13 15:33	1
Anthracene	<0.044		0.044	0.010	mg/Kg	☼		09/25/13 15:33	1
Carbazole	<0.22		0.22	0.062	mg/Kg	☼		09/25/13 15:33	1
Di-n-butyl phthalate	<0.22		0.22	0.055	mg/Kg	☼		09/25/13 15:33	1
Fluoranthene	0.019 J		0.044	0.018	mg/Kg	☼		09/25/13 15:33	1
Pyrene	<0.044		0.044	0.016	mg/Kg	☼		09/25/13 15:33	1
Butyl benzyl phthalate	<0.22		0.22	0.055	mg/Kg	☼		09/25/13 15:33	1
Benzo[a]anthracene	<0.044		0.044	0.0092	mg/Kg	☼		09/25/13 15:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-2

Client Sample ID: 846D-37-B04

Lab Sample ID: 500-62722-7

Date Collected: 09/10/13 12:55

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 75.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.044		0.044	0.0099	mg/Kg	☼		09/25/13 15:33	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.037	mg/Kg	☼		09/25/13 15:33	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.058	mg/Kg	☼		09/25/13 15:33	1
Di-n-octyl phthalate	<0.22		0.22	0.089	mg/Kg	☼		09/25/13 15:33	1
Benzo[b]fluoranthene	0.016	J	0.044	0.0085	mg/Kg	☼		09/25/13 15:33	1
Benzo[k]fluoranthene	0.014	J	0.044	0.010	mg/Kg	☼		09/25/13 15:33	1
Benzo[a]pyrene	<0.044		0.044	0.0080	mg/Kg	☼		09/25/13 15:33	1
Indeno[1,2,3-cd]pyrene	0.015	J	0.044	0.015	mg/Kg	☼		09/25/13 15:33	1
Dibenz(a,h)anthracene	<0.044		0.044	0.012	mg/Kg	☼		09/25/13 15:33	1
Benzo[g,h,i]perylene	0.017	J	0.044	0.015	mg/Kg	☼		09/25/13 15:33	1
3 & 4 Methylphenol	<0.22		0.22	0.083	mg/Kg	☼		09/25/13 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		25 - 110		09/25/13 15:33	1
Phenol-d5	41		31 - 110		09/25/13 15:33	1
Nitrobenzene-d5	50		25 - 115		09/25/13 15:33	1
2-Fluorobiphenyl	48		25 - 119		09/25/13 15:33	1
2,4,6-Tribromophenol	54		35 - 137		09/25/13 15:33	1
Terphenyl-d14	82		36 - 134		09/25/13 15:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8600	B	13	1.2	mg/Kg	☼		09/29/13 16:56	1
Antimony	0.61	J	1.3	0.51	mg/Kg	☼		09/29/13 16:56	1
Arsenic	8.2		0.64	0.13	mg/Kg	☼		09/29/13 16:56	1
Barium	55		0.64	0.068	mg/Kg	☼		09/29/13 16:56	1
Beryllium	0.50		0.25	0.022	mg/Kg	☼		09/29/13 16:56	1
Boron	7.3		3.2	0.13	mg/Kg	☼		09/29/13 16:56	1
Cadmium	0.25	B	0.13	0.016	mg/Kg	☼		09/29/13 16:56	1
Calcium	80000	B	130	34	mg/Kg	☼		09/30/13 10:29	10
Chromium	14		0.64	0.074	mg/Kg	☼		09/29/13 16:56	1
Cobalt	10		0.32	0.023	mg/Kg	☼		09/29/13 16:56	1
Copper	20	B	0.64	0.056	mg/Kg	☼		09/29/13 16:56	1
Iron	19000		13	5.2	mg/Kg	☼		09/29/13 16:56	1
Lead	14		0.32	0.095	mg/Kg	☼		09/29/13 16:56	1
Magnesium	31000	B	6.4	1.3	mg/Kg	☼		09/29/13 16:56	1
Manganese	590		0.64	0.034	mg/Kg	☼		09/29/13 16:56	1
Nickel	27		0.64	0.062	mg/Kg	☼		09/29/13 16:56	1
Potassium	1300		32	1.9	mg/Kg	☼		09/29/13 16:56	1
Selenium	0.42	J	0.64	0.23	mg/Kg	☼		09/29/13 16:56	1
Silver	<0.32		0.32	0.023	mg/Kg	☼		09/29/13 16:56	1
Sodium	520	B	64	8.5	mg/Kg	☼		09/29/13 16:56	1
Thallium	<0.64		0.64	0.27	mg/Kg	☼		09/29/13 16:56	1
Vanadium	18		0.32	0.047	mg/Kg	☼		09/29/13 16:56	1
Zinc	54	B	1.3	0.26	mg/Kg	☼		09/29/13 16:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.25		0.20	0.20	mg/L			09/29/13 16:00	1
Lead	0.0055	J	0.0075	0.0050	mg/L			09/29/13 16:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-2

Client Sample ID: 846D-37-B04

Lab Sample ID: 500-62722-7

Date Collected: 09/10/13 12:55

Matrix: Solid

Date Received: 09/11/13 06:15

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	4.8		0.025	0.010	mg/L			09/29/13 16:00	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.37	J B	0.50	0.010	mg/L			09/25/13 17:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L			09/25/13 17:46	1
Boron	0.42	B	0.20	0.050	mg/L			09/25/13 17:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L			09/25/13 17:46	1
Chromium	0.033		0.025	0.010	mg/L			09/25/13 17:46	1
Cobalt	0.0061	J	0.025	0.0050	mg/L			09/25/13 17:46	1
Iron	28		0.20	0.20	mg/L			09/25/13 17:46	1
Lead	0.031		0.0075	0.0050	mg/L			09/25/13 17:46	1
Manganese	0.16		0.025	0.010	mg/L			09/25/13 17:46	1
Nickel	0.028		0.025	0.010	mg/L			09/25/13 17:46	1
Selenium	<0.050		0.050	0.010	mg/L			09/25/13 17:46	1
Silver	<0.025		0.025	0.0050	mg/L			09/25/13 17:46	1
Zinc	0.26	B	0.10	0.020	mg/L			09/25/13 17:46	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L			09/24/13 12:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L			09/24/13 12:00	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000066	J	0.00020	0.000020	mg/L			09/24/13 11:40	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062		0.021	0.0098	mg/Kg	☼		09/12/13 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13		0.200	0.200	SU			09/23/13 21:07	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
15935 Cedar Road

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59781 Longitude: -87.97821
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)
 Latitude: 41.59781 Longitude: -87.97821

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-38-B02 WAS SAMPLED ADJACENT TO SITE NO. 846D-38. SEE FIGURES 7 AND 22, AND TABLE 3ad OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-63074-5

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment
 Street Address: 2300 South Dirksen Parkway
 City: Springfield State: IL Zip Code: 62764
 Phone: 217-785-4246

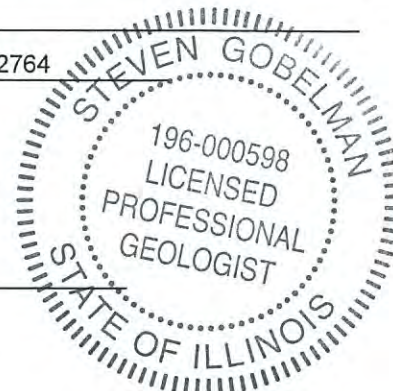
Steven Gobelman

Printed Name:



Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14
 Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-38
Store N Lock

Sample ID	846D-38-B02	¹ Most Stringent MAC ² Outside a Populated Area MAC ³ Populated non- Metropolitan Statistical Area MAC ⁴ Within Chicago Corporate Limits MAC ⁵ Metropolitan Statistical Area MAC ⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-7	
Sample Date	9/16/2013	
% Solids	91	
Sample pH	8.33	
Matrix	Soil	
No Contaminants of Concern Noted.		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63074-5
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/8/2013 3:46:37 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-5

Client Sample ID: 846D-38-B02

Lab Sample ID: 500-63074-19

Date Collected: 09/16/13 15:20

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 90.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	09/16/13 15:20	09/18/13 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	09/16/13 15:20	09/18/13 23:11	1
Dibromofluoromethane	96		75 - 120	09/16/13 15:20	09/18/13 23:11	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	09/16/13 15:20	09/18/13 23:11	1
Toluene-d8 (Surr)	95		75 - 122	09/16/13 15:20	09/18/13 23:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	09/19/13 07:16	09/27/13 17:31	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	09/19/13 07:16	09/27/13 17:31	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/19/13 07:16	09/27/13 17:31	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/19/13 07:16	09/27/13 17:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-5

Client Sample ID: 846D-38-B02

Lab Sample ID: 500-63074-19

Date Collected: 09/16/13 15:20

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 90.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Isophorone	<0.18		0.18	0.040	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Carbazole	<0.18		0.18	0.051	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Pyrene	<0.036		0.036	0.013	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1
Benzo[a]anthracene	<0.036		0.036	0.0075	mg/Kg	*	09/19/13 07:16	09/27/13 17:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-5

Client Sample ID: 846D-38-B02

Lab Sample ID: 500-63074-19

Date Collected: 09/16/13 15:20

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 90.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0081	mg/Kg	☼	09/19/13 07:16	09/27/13 17:31	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/19/13 07:16	09/27/13 17:31	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 17:31	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	09/19/13 07:16	09/27/13 17:31	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	09/19/13 07:16	09/27/13 17:31	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	09/19/13 07:16	09/27/13 17:31	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	09/19/13 07:16	09/27/13 17:31	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 17:31	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/19/13 07:16	09/27/13 17:31	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 17:31	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	09/19/13 07:16	09/27/13 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		25 - 110	09/19/13 07:16	09/27/13 17:31	1
Phenol-d5	71		31 - 110	09/19/13 07:16	09/27/13 17:31	1
Nitrobenzene-d5	70		25 - 115	09/19/13 07:16	09/27/13 17:31	1
2-Fluorobiphenyl	68		25 - 119	09/19/13 07:16	09/27/13 17:31	1
2,4,6-Tribromophenol	57		35 - 137	09/19/13 07:16	09/27/13 17:31	1
Terphenyl-d14	69		36 - 134	09/19/13 07:16	09/27/13 17:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6200	B	11	1.0	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Arsenic	7.5		0.55	0.11	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Barium	34		0.55	0.059	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Beryllium	0.35		0.22	0.019	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Boron	4.4	B	2.8	0.12	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Cadmium	0.18	B	0.11	0.014	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Calcium	27000	B	11	3.0	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Chromium	9.6		0.55	0.064	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Cobalt	8.0		0.28	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Copper	19	B	0.55	0.049	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Iron	14000		11	4.5	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Lead	11		0.28	0.082	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Magnesium	220000		55	11	mg/Kg	☼	09/17/13 08:00	09/18/13 17:45	10
Manganese	230		0.55	0.030	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Nickel	19		0.55	0.054	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Potassium	820	B	28	1.7	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Selenium	0.33	J	0.55	0.20	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Sodium	75	B	55	7.4	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Thallium	0.28	J	0.55	0.23	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Vanadium	12		0.28	0.041	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1
Zinc	47		1.1	0.22	mg/Kg	☼	09/17/13 08:00	09/17/13 21:37	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.96	B	0.50	0.010	mg/L		09/27/13 08:00	10/03/13 03:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/13 08:00	10/03/13 03:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-5

Client Sample ID: 846D-38-B02

Lab Sample ID: 500-63074-19

Date Collected: 09/16/13 15:20

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.9	B	0.10	0.050	mg/L		09/27/13 08:00	10/03/13 03:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/13 08:00	10/03/13 03:02	1
Chromium	<0.025		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 03:02	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 03:02	1
Iron	2.6		0.20	0.20	mg/L		09/27/13 08:00	10/03/13 03:02	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/27/13 08:00	10/03/13 03:02	1
Manganese	0.015	J	0.025	0.010	mg/L		09/27/13 08:00	10/03/13 03:02	1
Nickel	<0.025		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 03:02	1
Selenium	<0.050		0.050	0.010	mg/L		09/27/13 08:00	10/03/13 03:02	1
Silver	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 03:02	1
Zinc	0.76	B	0.10	0.020	mg/L		09/27/13 08:00	10/03/13 03:02	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/27/13 08:00	09/30/13 12:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/27/13 08:00	09/30/13 12:34	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/27/13 16:10	09/30/13 11:22	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0079	mg/Kg	☼	09/17/13 13:45	09/18/13 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.33		0.200	0.200	SU			10/01/13 16:21	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-5

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

16025 Cedar Road

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59674 Longitude: -87.97814

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Additional BOL: 1970505148

IEPA Site Number(s), if assigned: BOL: 1970505096 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59674 Longitude: -87.97814

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-39-B01 AND -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-39. SEE FIGURE 22 AND TABLE 3ae OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-63074-6

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

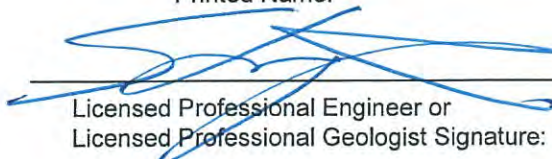
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-39

Luther J. Schilling School

Sample ID	846D-39-B01	846D-39-B03										
Sample Depth (ft)	0-6	0-6										
Sample Date	9/16/2013	9/16/2013										
PID	0	0										
Sample pH	8.35	8.44										
Matrix	Soil	Soil										
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	0.33	1.2	ND	0.09	0.09	0.09	0.98	1.3	2.1	NA		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63074-6
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/8/2013 3:47:42 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-6

Client Sample ID: 846D-39-B01

Lab Sample ID: 500-63074-20

Date Collected: 09/16/13 15:55

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 87.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0038		0.0038	0.0017	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Benzene	<0.0038		0.0038	0.00053	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Bromodichloromethane	<0.0038		0.0038	0.00066	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Bromoform	<0.0038		0.0038	0.00088	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Bromomethane	<0.0038		0.0038	0.0012	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Carbon disulfide	<0.0038		0.0038	0.00057	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Carbon tetrachloride	<0.0038		0.0038	0.00070	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Chlorobenzene	<0.0038		0.0038	0.00039	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Chloroethane	<0.0038		0.0038	0.0010	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Chloroform	<0.0038		0.0038	0.00044	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Chloromethane	<0.0038		0.0038	0.00081	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00054	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00050	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Dibromochloromethane	<0.0038		0.0038	0.00067	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
1,1-Dichloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
1,2-Dichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
1,1-Dichloroethene	<0.0038		0.0038	0.00062	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
1,2-Dichloropropane	<0.0038		0.0038	0.00058	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.00050	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Ethylbenzene	<0.0038		0.0038	0.00078	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
2-Hexanone	<0.0038		0.0038	0.0011	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Methylene Chloride	<0.0038		0.0038	0.0010	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0010	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00063	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Styrene	<0.0038		0.0038	0.00050	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00078	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Tetrachloroethene	<0.0038		0.0038	0.00059	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Toluene	<0.0038		0.0038	0.00054	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00053	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.00069	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00052	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Trichloroethene	<0.0038		0.0038	0.00063	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Vinyl acetate	<0.0038		0.0038	0.00060	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Vinyl chloride	<0.0038		0.0038	0.00081	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1
Xylenes, Total	<0.0077		0.0077	0.00035	mg/Kg	☼	09/16/13 15:55	09/18/13 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/16/13 15:55	09/18/13 23:34	1
Dibromofluoromethane	95		75 - 120	09/16/13 15:55	09/18/13 23:34	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	09/16/13 15:55	09/18/13 23:34	1
Toluene-d8 (Surr)	97		75 - 122	09/16/13 15:55	09/18/13 23:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-6

Client Sample ID: 846D-39-B01

Lab Sample ID: 500-63074-20

Date Collected: 09/16/13 15:55

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
2-Chlorophenol	<0.18		0.18	0.053	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Naphthalene	0.044		0.037	0.0071	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Acenaphthylene	<0.037		0.037	0.0084	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Acenaphthene	0.017 J		0.037	0.011	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Fluorene	0.015 J		0.037	0.0084	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
4-Nitroaniline	<0.37		0.37	0.075	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Phenanthrene	0.26		0.037	0.015	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Anthracene	0.055		0.037	0.0086	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Fluoranthene	0.68		0.037	0.015	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Pyrene	0.59		0.037	0.013	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Benzo[a]anthracene	0.35		0.037	0.0077	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-6

Client Sample ID: 846D-39-B01

Lab Sample ID: 500-63074-20

Date Collected: 09/16/13 15:55

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.34		0.037	0.0083	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Bis(2-ethylhexyl) phthalate	0.056	J	0.18	0.049	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Di-n-octyl phthalate	<0.18		0.18	0.075	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Benzo[b]fluoranthene	0.55		0.037	0.0071	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Benzo[k]fluoranthene	0.16		0.037	0.0088	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Benzo[a]pyrene	0.33		0.037	0.0067	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Indeno[1,2,3-cd]pyrene	0.19		0.037	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Dibenz(a,h)anthracene	0.081		0.037	0.010	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
Benzo[g,h,i]perylene	0.21		0.037	0.012	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1
3 & 4 Methylphenol	<0.18		0.18	0.070	mg/Kg	☼	09/19/13 07:16	09/27/13 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		25 - 110	09/19/13 07:16	09/27/13 17:54	1
Phenol-d5	73		31 - 110	09/19/13 07:16	09/27/13 17:54	1
Nitrobenzene-d5	65		25 - 115	09/19/13 07:16	09/27/13 17:54	1
2-Fluorobiphenyl	68		25 - 119	09/19/13 07:16	09/27/13 17:54	1
2,4,6-Tribromophenol	77		35 - 137	09/19/13 07:16	09/27/13 17:54	1
Terphenyl-d14	76		36 - 134	09/19/13 07:16	09/27/13 17:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7000	B	11	0.99	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Antimony	0.51	J	1.1	0.43	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Arsenic	9.6		0.54	0.11	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Barium	51		0.54	0.058	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Beryllium	0.40		0.22	0.019	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Boron	6.2	B	2.7	0.11	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Cadmium	2.2	B	0.11	0.014	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Calcium	68000	B	110	29	mg/Kg	☼	09/17/13 08:00	09/18/13 17:51	10
Chromium	29		0.54	0.062	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Cobalt	12		0.27	0.019	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Copper	36	B	0.54	0.048	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Iron	16000		11	4.4	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Lead	24		0.27	0.080	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Magnesium	33000		54	11	mg/Kg	☼	09/17/13 08:00	09/18/13 17:51	10
Manganese	330		0.54	0.029	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Nickel	29		0.54	0.053	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Potassium	960	B	27	1.6	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Selenium	0.19	J	0.54	0.19	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Silver	0.54		0.27	0.019	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Sodium	160	B	54	7.2	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Thallium	0.40	J	0.54	0.23	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Vanadium	14		0.27	0.040	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1
Zinc	94		1.1	0.22	mg/Kg	☼	09/17/13 08:00	09/17/13 21:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/06/13 14:30	10/07/13 15:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-6

Client Sample ID: 846D-39-B01

Lab Sample ID: 500-63074-20

Date Collected: 09/16/13 15:55

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.90	B	0.50	0.010	mg/L		09/27/13 08:00	10/03/13 03:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/13 08:00	10/03/13 03:08	1
Boron	1.7	B	0.10	0.050	mg/L		09/27/13 08:00	10/03/13 03:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/13 08:00	10/03/13 03:08	1
Chromium	0.014	J	0.025	0.010	mg/L		09/27/13 08:00	10/03/13 03:08	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 03:08	1
Iron	9.7		0.20	0.20	mg/L		09/27/13 08:00	10/03/13 03:08	1
Lead	0.0070	J	0.0075	0.0050	mg/L		09/27/13 08:00	10/03/13 03:08	1
Manganese	0.039		0.025	0.010	mg/L		09/27/13 08:00	10/03/13 03:08	1
Nickel	0.012	J	0.025	0.010	mg/L		09/27/13 08:00	10/03/13 03:08	1
Selenium	<0.050		0.050	0.010	mg/L		09/27/13 08:00	10/03/13 03:08	1
Silver	<0.025		0.025	0.0050	mg/L		09/27/13 08:00	10/03/13 03:08	1
Zinc	0.73	B	0.10	0.020	mg/L		09/27/13 08:00	10/03/13 03:08	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/27/13 08:00	09/30/13 12:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/27/13 08:00	09/30/13 12:37	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/27/13 16:10	09/30/13 11:24	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074		0.018	0.0086	mg/Kg	✱	09/17/13 13:45	09/18/13 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.35		0.200	0.200	SU			10/01/13 16:19	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-6

Client Sample ID: 846D-39-B03

Lab Sample ID: 500-63074-23

Date Collected: 09/16/13 15:35

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0039		0.0039	0.0017	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Benzene	<0.0039		0.0039	0.00053	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Bromodichloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Bromoform	<0.0039		0.0039	0.00089	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Bromomethane	<0.0039		0.0039	0.0012	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Carbon disulfide	<0.0039		0.0039	0.00058	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Carbon tetrachloride	<0.0039		0.0039	0.00071	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Chlorobenzene	<0.0039		0.0039	0.00039	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Chloroform	<0.0039		0.0039	0.00045	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Chloromethane	<0.0039		0.0039	0.00081	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00055	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00051	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Dibromochloromethane	<0.0039		0.0039	0.00068	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
1,1-Dichloroethane	<0.0039		0.0039	0.00061	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
1,1-Dichloroethene	<0.0039		0.0039	0.00063	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
1,2-Dichloropropane	<0.0039		0.0039	0.00059	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.00051	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Ethylbenzene	<0.0039		0.0039	0.00078	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
2-Hexanone	<0.0039		0.0039	0.0011	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Methylene Chloride	<0.0039		0.0039	0.0010	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0010	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00064	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Styrene	<0.0039		0.0039	0.00051	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
1,1,1,2-Tetrachloroethane	<0.0039		0.0039	0.00078	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Tetrachloroethene	<0.0039		0.0039	0.00059	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Toluene	<0.0039		0.0039	0.00054	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00053	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.00070	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00053	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Trichloroethene	<0.0039		0.0039	0.00064	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Vinyl acetate	<0.0039		0.0039	0.00061	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Vinyl chloride	<0.0039		0.0039	0.00081	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1
Xylenes, Total	<0.0078		0.0078	0.00035	mg/Kg	☼	09/16/13 15:35	09/19/13 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/16/13 15:35	09/19/13 00:43	1
Dibromofluoromethane	97		75 - 120	09/16/13 15:35	09/19/13 00:43	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/16/13 15:35	09/19/13 00:43	1
Toluene-d8 (Surr)	95		75 - 122	09/16/13 15:35	09/19/13 00:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-6

Client Sample ID: 846D-39-B03

Lab Sample ID: 500-63074-23

Date Collected: 09/16/13 15:35

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-6

Client Sample ID: 846D-39-B03

Lab Sample ID: 500-63074-23

Date Collected: 09/16/13 15:35

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/19/13 18:30	09/27/13 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		25 - 110				09/19/13 18:30	09/27/13 19:02	1
Phenol-d5	72		31 - 110				09/19/13 18:30	09/27/13 19:02	1
Nitrobenzene-d5	76		25 - 115				09/19/13 18:30	09/27/13 19:02	1
2-Fluorobiphenyl	68		25 - 119				09/19/13 18:30	09/27/13 19:02	1
2,4,6-Tribromophenol	79		35 - 137				09/19/13 18:30	09/27/13 19:02	1
Terphenyl-d14	76		36 - 134				09/19/13 18:30	09/27/13 19:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7900		12	1.1	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Arsenic	8.6		0.58	0.12	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Barium	59		0.58	0.062	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Beryllium	0.52		0.23	0.020	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Boron	7.2		2.9	0.12	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Cadmium	0.65		0.12	0.015	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Calcium	50000		12	3.1	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Chromium	12		0.58	0.067	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Cobalt	9.5		0.29	0.021	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Copper	22		0.58	0.051	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Iron	17000		12	4.8	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Lead	11		0.29	0.086	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Magnesium	25000		5.8	1.2	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Manganese	450		0.58	0.031	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Nickel	23		0.58	0.057	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Potassium	1600		29	1.7	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Sodium	390		58	7.8	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Thallium	0.55 J		0.58	0.24	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Vanadium	16		0.29	0.043	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1
Zinc	50		1.2	0.23	mg/Kg	☼	09/17/13 08:00	10/04/13 20:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/06/13 14:30	10/07/13 13:03	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/06/13 14:30	10/07/13 13:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-6

Client Sample ID: 846D-39-B03

Lab Sample ID: 500-63074-23

Date Collected: 09/16/13 15:35

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.99		0.50	0.010	mg/L		09/26/13 09:30	10/03/13 04:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/13 09:30	10/03/13 04:00	1
Boron	1.7		0.10	0.050	mg/L		09/26/13 09:30	10/03/13 04:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/26/13 09:30	10/03/13 04:00	1
Chromium	0.029		0.025	0.010	mg/L		09/26/13 09:30	10/03/13 04:00	1
Cobalt	0.0085	J	0.025	0.0050	mg/L		09/26/13 09:30	10/03/13 04:00	1
Iron	31		0.20	0.20	mg/L		09/26/13 09:30	10/03/13 04:00	1
Lead	0.014		0.0075	0.0050	mg/L		09/26/13 09:30	10/03/13 04:00	1
Manganese	0.13		0.025	0.010	mg/L		09/26/13 09:30	10/03/13 04:00	1
Nickel	0.032		0.025	0.010	mg/L		09/26/13 09:30	10/03/13 04:00	1
Selenium	<0.050		0.050	0.010	mg/L		09/26/13 09:30	10/03/13 04:00	1
Silver	<0.025		0.025	0.0050	mg/L		09/26/13 09:30	10/03/13 04:00	1
Zinc	0.78		0.10	0.020	mg/L		09/26/13 09:30	10/03/13 04:00	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/26/13 09:30	09/27/13 16:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/26/13 09:30	09/27/13 16:32	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000048	J	0.00020	0.000020	mg/L		09/26/13 16:30	09/27/13 11:33	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0088	mg/Kg	☼	09/17/13 13:45	09/18/13 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.44		0.200	0.200	SU			10/01/13 16:14	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-6

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	Duplicate RPD exceeds the control limit
F	MS/MSD Recovery and/or RPD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

16020 Cedar Road

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59654 Longitude: -87.97849

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1970505095 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59654 Longitude: -87.97849

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-40-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-40. SEE FIGURE 22 AND TABLE 3af OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-63499-10

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

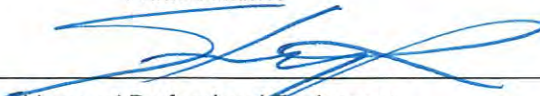
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

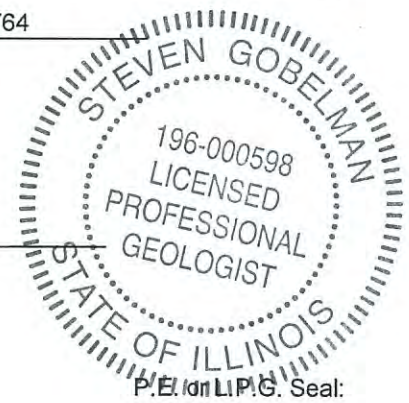
Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-40

Homer School District #33C Bus Barn

Sample ID	846D-40-B01	846D-40-B02									
Sample Depth (ft)	0-4	0-4									
Sample Date	9/23/2013	9/23/2013									
PID	0	0									
Sample pH	8.24	7.69									
Matrix	Soil	Soil									
Inorganic Compounds, Total (mg/kg)			13	1,3	11.3	NA	11.3	11.3	NA	13	NA
Arsenic	11										

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63499-10
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/15/2013 3:53:49 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-10

Client Sample ID: 846D-40-B01

Lab Sample ID: 500-63499-32

Date Collected: 09/23/13 08:55

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 86.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	09/23/13 08:55	09/30/13 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	09/23/13 08:55	09/30/13 17:07	1
Dibromofluoromethane	99		75 - 120	09/23/13 08:55	09/30/13 17:07	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/23/13 08:55	09/30/13 17:07	1
Toluene-d8 (Surr)	96		75 - 122	09/23/13 08:55	09/30/13 17:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-10

Client Sample ID: 846D-40-B01

Lab Sample ID: 500-63499-32

Date Collected: 09/23/13 08:55

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 86.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-10

Client Sample ID: 846D-40-B01

Lab Sample ID: 500-63499-32

Date Collected: 09/23/13 08:55

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 86.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	10/02/13 07:25	10/08/13 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		25 - 110	10/02/13 07:25	10/08/13 00:31	1
Phenol-d5	70		31 - 110	10/02/13 07:25	10/08/13 00:31	1
Nitrobenzene-d5	64		25 - 115	10/02/13 07:25	10/08/13 00:31	1
2-Fluorobiphenyl	64		25 - 119	10/02/13 07:25	10/08/13 00:31	1
2,4,6-Tribromophenol	79		35 - 137	10/02/13 07:25	10/08/13 00:31	1
Terphenyl-d14	116		36 - 134	10/02/13 07:25	10/08/13 00:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9700		11	1.0	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Arsenic	11		0.56	0.11	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Barium	59		0.56	0.060	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Beryllium	0.60		0.23	0.020	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Boron	5.9		2.8	0.12	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Cadmium	1.0		0.11	0.014	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Calcium	51000		11	3.1	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Chromium	15		0.56	0.065	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Cobalt	7.7		0.28	0.020	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Copper	30		0.56	0.050	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Iron	21000		11	4.6	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Lead	13		0.28	0.084	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Magnesium	30000		5.6	1.2	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Manganese	320		0.56	0.031	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Nickel	21		0.56	0.055	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Potassium	1500		28	1.7	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Sodium	710		56	7.6	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Vanadium	20		0.28	0.042	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1
Zinc	55		1.1	0.23	mg/Kg	☼	09/24/13 16:15	10/10/13 14:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L	☼	10/14/13 09:45	10/14/13 21:47	1
Lead	<0.0075		0.0075	0.0050	mg/L	☼	10/14/13 09:45	10/14/13 21:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-10

Client Sample ID: 846D-40-B01

Lab Sample ID: 500-63499-32

Date Collected: 09/23/13 08:55

Matrix: Solid

Date Received: 09/24/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.42		0.025	0.010	mg/L		10/14/13 09:45	10/14/13 21:47	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40	J	0.50	0.010	mg/L		10/08/13 08:00	10/09/13 02:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/08/13 08:00	10/09/13 02:29	1
Boron	0.11		0.10	0.050	mg/L		10/08/13 08:00	10/09/13 02:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/08/13 08:00	10/09/13 02:29	1
Chromium	0.084		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 02:29	1
Cobalt	0.016	J	0.025	0.0050	mg/L		10/08/13 08:00	10/09/13 02:29	1
Iron	92		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 02:29	1
Lead	0.049		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 02:29	1
Manganese	0.30		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 02:29	1
Nickel	0.085		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 02:29	1
Selenium	<0.050		0.050	0.010	mg/L		10/08/13 08:00	10/09/13 02:29	1
Silver	<0.025		0.025	0.0050	mg/L		10/08/13 08:00	10/09/13 02:29	1
Zinc	0.29		0.10	0.020	mg/L		10/08/13 08:00	10/09/13 02:29	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/14/13 09:45	10/14/13 16:50	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/08/13 08:00	10/08/13 17:18	1
Thallium	0.0034		0.0020	0.0020	mg/L		10/08/13 08:00	10/08/13 17:18	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J	0.00020	0.000020	mg/L		10/08/13 17:30	10/09/13 11:28	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.019	0.0088	mg/Kg	☼	09/25/13 15:45	09/26/13 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU			10/07/13 17:39	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-10

Client Sample ID: 846D-40-B02

Lab Sample ID: 500-63499-33

Date Collected: 09/23/13 09:05

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00082	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00089	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Trichloroethene	<0.0049		0.0049	0.00082	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Vinyl acetate	<0.0049		0.0049	0.00078	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	09/23/13 09:05	09/30/13 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/23/13 09:05	09/30/13 17:30	1
Dibromofluoromethane	100		75 - 120	09/23/13 09:05	09/30/13 17:30	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/23/13 09:05	09/30/13 17:30	1
Toluene-d8 (Surr)	95		75 - 122	09/23/13 09:05	09/30/13 17:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-10

Client Sample ID: 846D-40-B02

Lab Sample ID: 500-63499-33

Date Collected: 09/23/13 09:05

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-10

Client Sample ID: 846D-40-B02

Lab Sample ID: 500-63499-33

Date Collected: 09/23/13 09:05

Matrix: Solid

Date Received: 09/24/13 06:30

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	10/02/13 07:25	10/08/13 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		25 - 110	10/02/13 07:25	10/08/13 00:50	1
Phenol-d5	60		31 - 110	10/02/13 07:25	10/08/13 00:50	1
Nitrobenzene-d5	54		25 - 115	10/02/13 07:25	10/08/13 00:50	1
2-Fluorobiphenyl	55		25 - 119	10/02/13 07:25	10/08/13 00:50	1
2,4,6-Tribromophenol	65		35 - 137	10/02/13 07:25	10/08/13 00:50	1
Terphenyl-d14	100		36 - 134	10/02/13 07:25	10/08/13 00:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8300	B	12	1.1	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Antimony	<1.2		1.2	0.46	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Arsenic	13		0.58	0.11	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Barium	60		0.58	0.062	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Beryllium	0.45		0.23	0.020	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Boron	2.6	J	2.9	0.12	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Cadmium	0.21	B	0.12	0.015	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Calcium	25000	B	12	3.1	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Chromium	14		0.58	0.067	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Cobalt	9.1		0.29	0.021	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Copper	37	B	0.58	0.051	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Iron	39000		12	4.7	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Lead	21	B	0.29	0.086	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Magnesium	18000		5.8	1.2	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Manganese	230	B	0.58	0.031	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Nickel	29		0.58	0.056	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Potassium	780		29	1.7	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Selenium	1.7		0.58	0.20	mg/Kg	☼	09/24/13 17:00	09/28/13 16:22	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Sodium	130		58	7.7	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Thallium	0.41	J	0.58	0.24	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Vanadium	17		0.29	0.043	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1
Zinc	74		1.2	0.23	mg/Kg	☼	09/24/13 17:00	09/27/13 20:09	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.72		0.50	0.010	mg/L		10/08/13 08:00	10/09/13 02:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/08/13 08:00	10/09/13 02:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-10

Client Sample ID: 846D-40-B02

Lab Sample ID: 500-63499-33

Date Collected: 09/23/13 09:05

Matrix: Solid

Date Received: 09/24/13 06:30

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.0		0.10	0.050	mg/L		10/08/13 08:00	10/09/13 02:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/08/13 08:00	10/09/13 02:33	1
Chromium	<0.025		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 02:33	1
Cobalt	<0.025		0.025	0.0050	mg/L		10/08/13 08:00	10/09/13 02:33	1
Iron	3.8		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 02:33	1
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 02:33	1
Manganese	0.017 J		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 02:33	1
Nickel	<0.025		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 02:33	1
Selenium	<0.050		0.050	0.010	mg/L		10/08/13 08:00	10/09/13 02:33	1
Silver	<0.025		0.025	0.0050	mg/L		10/08/13 08:00	10/09/13 02:33	1
Zinc	0.48		0.10	0.020	mg/L		10/08/13 08:00	10/09/13 02:33	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		10/08/13 08:00	10/08/13 17:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/08/13 08:00	10/08/13 17:22	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		10/08/13 17:30	10/09/13 11:36	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0091	mg/Kg	☼	09/25/13 15:45	09/26/13 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.69		0.200	0.200	SU			10/07/13 17:44	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63499-10

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

16050 Cedar Road

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59559 Longitude: -87.97839

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms

Project Name: FAP 351 (IL 7)

Latitude: 41.59559 Longitude: -87.97839

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-41-B01 THROUGH -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-41. SEE FIGURE 22 AND TABLE 3ag OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-63234-12

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

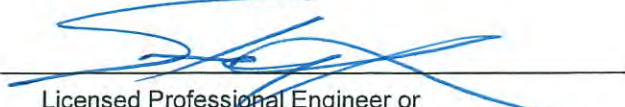
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

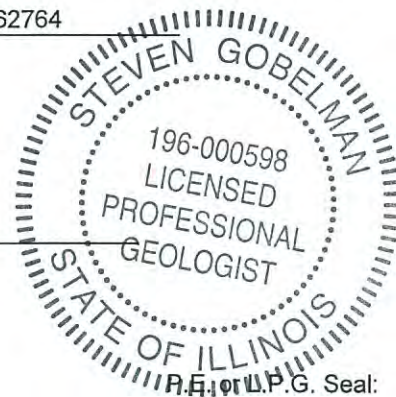
Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/23/14
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-41

Homer Township Fire Station

Sample ID	846D-41-B01	846D-41-B02	846D-41-B03						
Sample Depth (ft)	0-3	0-3	0-3						
Sample Date	9/18/2013	9/18/2013	9/18/2013						
PID	0	0	0						
Sample pH	7.64	7.49	8.02						
Matrix	Soil	Soil	Soil						
No Contaminants of Concern Noted.									
				¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non- Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63234-12
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/10/2013 2:40:00 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-12

Client Sample ID: 846D-41-B01

Lab Sample ID: 500-63234-25

Date Collected: 09/18/13 08:55

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 88.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0061		0.0061	0.0026	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Benzene	<0.0061		0.0061	0.00083	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Bromodichloromethane	<0.0061		0.0061	0.0010	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Bromoform	<0.0061		0.0061	0.0014	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Bromomethane	<0.0061		0.0061	0.0018	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
2-Butanone (MEK)	<0.0061		0.0061	0.0022	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Carbon disulfide	<0.0061		0.0061	0.00090	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Carbon tetrachloride	<0.0061		0.0061	0.0011	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Chlorobenzene	<0.0061		0.0061	0.00061	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Chloroethane	<0.0061		0.0061	0.0016	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Chloroform	<0.0061		0.0061	0.00070	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Chloromethane	<0.0061		0.0061	0.0013	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
cis-1,2-Dichloroethene	<0.0061		0.0061	0.00086	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
cis-1,3-Dichloropropene	<0.0061		0.0061	0.00079	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Dibromochloromethane	<0.0061		0.0061	0.0011	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
1,1-Dichloroethane	<0.0061		0.0061	0.00096	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
1,2-Dichloroethane	<0.0061		0.0061	0.00090	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
1,1-Dichloroethene	<0.0061		0.0061	0.00098	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
1,2-Dichloropropane	<0.0061		0.0061	0.00092	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
1,3-Dichloropropene, Total	<0.0061		0.0061	0.00079	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Ethylbenzene	<0.0061		0.0061	0.0012	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
2-Hexanone	<0.0061		0.0061	0.0017	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Methylene Chloride	<0.0061		0.0061	0.0016	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
4-Methyl-2-pentanone (MIBK)	<0.0061		0.0061	0.0016	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Methyl tert-butyl ether	<0.0061		0.0061	0.0010	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Styrene	<0.0061		0.0061	0.00079	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
1,1,2,2-Tetrachloroethane	<0.0061		0.0061	0.0012	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Tetrachloroethene	<0.0061		0.0061	0.00093	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Toluene	<0.0061		0.0061	0.00085	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
trans-1,2-Dichloroethene	<0.0061		0.0061	0.00083	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
trans-1,3-Dichloropropene	<0.0061		0.0061	0.0011	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
1,1,1-Trichloroethane	<0.0061		0.0061	0.00090	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
1,1,2-Trichloroethane	<0.0061		0.0061	0.00083	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Trichloroethene	<0.0061		0.0061	0.0010	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Vinyl acetate	<0.0061		0.0061	0.00095	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Vinyl chloride	<0.0061		0.0061	0.0013	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1
Xylenes, Total	<0.012		0.012	0.00055	mg/Kg	☼	09/18/13 08:55	09/20/13 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/18/13 08:55	09/20/13 22:55	1
Dibromofluoromethane	99		75 - 120	09/18/13 08:55	09/20/13 22:55	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/18/13 08:55	09/20/13 22:55	1
Toluene-d8 (Surr)	93		75 - 122	09/18/13 08:55	09/20/13 22:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-12

Client Sample ID: 846D-41-B01

Lab Sample ID: 500-63234-25

Date Collected: 09/18/13 08:55

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-12

Client Sample ID: 846D-41-B01

Lab Sample ID: 500-63234-25

Date Collected: 09/18/13 08:55

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/19/13 18:30	09/30/13 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		25 - 110	09/19/13 18:30	09/30/13 18:34	1
Phenol-d5	56		31 - 110	09/19/13 18:30	09/30/13 18:34	1
Nitrobenzene-d5	50		25 - 115	09/19/13 18:30	09/30/13 18:34	1
2-Fluorobiphenyl	65		25 - 119	09/19/13 18:30	09/30/13 18:34	1
2,4,6-Tribromophenol	89		35 - 137	09/19/13 18:30	09/30/13 18:34	1
Terphenyl-d14	87		36 - 134	09/19/13 18:30	09/30/13 18:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		11	0.99	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Arsenic	11		0.54	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Barium	80		0.54	0.058	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Beryllium	0.75		0.22	0.019	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Boron	2.7		2.7	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Cadmium	0.48		0.11	0.014	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Calcium	2800		11	2.9	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Chromium	17		0.54	0.063	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Cobalt	13		0.27	0.019	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Copper	18		0.54	0.048	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Iron	23000		11	4.4	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Lead	18		0.27	0.081	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Magnesium	3600		5.4	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Manganese	500		0.54	0.029	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Nickel	18		0.54	0.053	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Potassium	1100		27	1.6	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Selenium	0.98		0.54	0.19	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Sodium	56		54	7.2	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Thallium	0.25 J		0.54	0.23	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Vanadium	28		0.27	0.040	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1
Zinc	43		1.1	0.22	mg/Kg	☼	09/19/13 08:30	10/08/13 04:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 00:43	1
Lead	0.0061 J		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 00:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-12

Client Sample ID: 846D-41-B01

Lab Sample ID: 500-63234-25

Date Collected: 09/18/13 08:55

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.25		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 00:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.96		0.50	0.010	mg/L		09/30/13 07:45	10/03/13 06:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/03/13 06:15	1
Boron	1.6		0.10	0.050	mg/L		09/30/13 07:45	10/03/13 06:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/03/13 06:15	1
Chromium	0.046		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 06:15	1
Cobalt	0.0082	J	0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 06:15	1
Iron	48		0.20	0.20	mg/L		09/30/13 07:45	10/03/13 06:15	1
Lead	0.016		0.0075	0.0050	mg/L		09/30/13 07:45	10/03/13 06:15	1
Manganese	0.17		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 06:15	1
Nickel	0.039		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 06:15	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/03/13 06:15	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 06:15	1
Zinc	0.73		0.10	0.020	mg/L		09/30/13 07:45	10/03/13 06:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 13:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 13:06	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000046	J	0.00020	0.000020	mg/L		10/01/13 16:00	10/02/13 09:55	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.017	0.0080	mg/Kg	☼	09/19/13 13:45	09/20/13 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.64		0.200	0.200	SU			10/03/13 12:16	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-12

Client Sample ID: 846D-41-B02

Lab Sample ID: 500-63234-26

Date Collected: 09/18/13 09:15

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 81.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.018		0.0049	0.0021	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Carbon tetrachloride	<0.0049		0.0049	0.00088	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Dibromochloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
1,1-Dichloroethene	<0.0049		0.0049	0.00078	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Vinyl acetate	<0.0049		0.0049	0.00076	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	09/18/13 09:15	09/20/13 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/18/13 09:15	09/20/13 15:55	1
Dibromofluoromethane	108		75 - 120	09/18/13 09:15	09/20/13 15:55	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/18/13 09:15	09/20/13 15:55	1
Toluene-d8 (Surr)	100		75 - 122	09/18/13 09:15	09/20/13 15:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-12

Client Sample ID: 846D-41-B02

Lab Sample ID: 500-63234-26

Date Collected: 09/18/13 09:15

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-12

Client Sample ID: 846D-41-B02

Lab Sample ID: 500-63234-26

Date Collected: 09/18/13 09:15

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/19/13 18:30	09/30/13 18:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		25 - 110				09/19/13 18:30	09/30/13 18:55	1
Phenol-d5	52		31 - 110				09/19/13 18:30	09/30/13 18:55	1
Nitrobenzene-d5	44		25 - 115				09/19/13 18:30	09/30/13 18:55	1
2-Fluorobiphenyl	56		25 - 119				09/19/13 18:30	09/30/13 18:55	1
2,4,6-Tribromophenol	65		35 - 137				09/19/13 18:30	09/30/13 18:55	1
Terphenyl-d14	87		36 - 134				09/19/13 18:30	09/30/13 18:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9400		12	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Antimony	<1.2		1.2	0.48	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Arsenic	9.6		0.59	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Barium	52		0.59	0.064	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Beryllium	0.62		0.24	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Boron	8.8		3.0	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Cadmium	0.76		0.12	0.015	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Calcium	31000		12	3.2	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Chromium	14		0.59	0.069	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Cobalt	9.7		0.30	0.021	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Copper	32		0.59	0.053	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Iron	19000		12	4.9	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Lead	15		0.30	0.089	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Magnesium	18000		5.9	1.2	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Manganese	310		0.59	0.032	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Nickel	24		0.59	0.058	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Potassium	2000		30	1.8	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Sodium	1300		59	8.0	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Thallium	0.42 J		0.59	0.25	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Vanadium	19		0.30	0.044	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1
Zinc	55		1.2	0.24	mg/Kg	☼	09/19/13 08:30	10/08/13 04:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.98		0.50	0.050	mg/L		10/08/13 08:00	10/09/13 00:59	1
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 00:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-12

Client Sample ID: 846D-41-B02

Lab Sample ID: 500-63234-26

Date Collected: 09/18/13 09:15

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 00:59	1
Manganese	3.8		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 00:59	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		09/30/13 07:45	10/03/13 06:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/03/13 06:21	1
Boron	2.2		0.10	0.050	mg/L		09/30/13 07:45	10/03/13 06:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/03/13 06:21	1
Chromium	0.070		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 06:21	1
Cobalt	0.034		0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 06:21	1
Iron	74		0.20	0.20	mg/L		09/30/13 07:45	10/03/13 06:21	1
Lead	0.051		0.0075	0.0050	mg/L		09/30/13 07:45	10/03/13 06:21	1
Manganese	1.0		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 06:21	1
Nickel	0.088		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 06:21	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/03/13 06:21	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 06:21	1
Zinc	1.1		0.10	0.020	mg/L		09/30/13 07:45	10/03/13 06:21	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		10/08/13 08:00	10/08/13 18:29	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 13:10	1
Thallium	0.0028		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 13:10	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000098	J	0.00020	0.000020	mg/L		10/01/13 16:00	10/02/13 09:57	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.020	0.0093	mg/Kg	☼	09/19/13 13:45	09/20/13 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.49		0.200	0.200	SU			10/04/13 09:45	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-12

Client Sample ID: 846D-41-B03

Lab Sample ID: 500-63234-27

Date Collected: 09/18/13 09:50

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012		0.0047	0.0020	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	09/18/13 09:50	09/20/13 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/18/13 09:50	09/20/13 16:19	1
Dibromofluoromethane	113		75 - 120	09/18/13 09:50	09/20/13 16:19	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/18/13 09:50	09/20/13 16:19	1
Toluene-d8 (Surr)	97		75 - 122	09/18/13 09:50	09/20/13 16:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-12

Client Sample ID: 846D-41-B03

Lab Sample ID: 500-63234-27

Date Collected: 09/18/13 09:50

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Dibenzofuran	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Butyl benzyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-12

Client Sample ID: 846D-41-B03

Lab Sample ID: 500-63234-27

Date Collected: 09/18/13 09:50

Matrix: Solid

Date Received: 09/19/13 06:30

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Di-n-octyl phthalate	0.21		0.19	0.079	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Benzo[b]fluoranthene	0.0084	J	0.038	0.0075	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Benzo[a]pyrene	<0.038		0.038	0.0071	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	09/19/13 18:30	09/30/13 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	09/19/13 18:30	09/30/13 19:17	1
Phenol-d5	57		31 - 110	09/19/13 18:30	09/30/13 19:17	1
Nitrobenzene-d5	52		25 - 115	09/19/13 18:30	09/30/13 19:17	1
2-Fluorobiphenyl	65		25 - 119	09/19/13 18:30	09/30/13 19:17	1
2,4,6-Tribromophenol	78		35 - 137	09/19/13 18:30	09/30/13 19:17	1
Terphenyl-d14	93		36 - 134	09/19/13 18:30	09/30/13 19:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		11	1.0	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Arsenic	7.6		0.55	0.11	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Barium	67		0.55	0.059	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Beryllium	0.65		0.22	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Boron	4.7		2.8	0.12	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Cadmium	0.48		0.11	0.014	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Calcium	9700		11	3.0	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Chromium	16		0.55	0.064	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Cobalt	4.9		0.28	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Copper	23		0.55	0.049	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Iron	19000		11	4.5	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Lead	12		0.28	0.082	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Magnesium	7600		5.5	1.1	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Manganese	160		0.55	0.030	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Nickel	18		0.55	0.054	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Potassium	1300		28	1.7	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Sodium	890		55	7.4	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Thallium	0.23	J	0.55	0.23	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Vanadium	23		0.28	0.041	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1
Zinc	46		1.1	0.22	mg/Kg	☼	09/19/13 08:30	10/08/13 04:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		10/08/13 08:00	10/09/13 01:04	1
Lead	0.0058	J	0.0075	0.0050	mg/L		10/08/13 08:00	10/09/13 01:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-12

Client Sample ID: 846D-41-B03

Lab Sample ID: 500-63234-27

Date Collected: 09/18/13 09:50

Matrix: Solid

Date Received: 09/19/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.5		0.025	0.010	mg/L		10/08/13 08:00	10/09/13 01:04	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		09/30/13 07:45	10/03/13 06:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/30/13 07:45	10/03/13 06:27	1
Boron	1.8		0.10	0.050	mg/L		09/30/13 07:45	10/03/13 06:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/30/13 07:45	10/03/13 06:27	1
Chromium	0.069		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 06:27	1
Cobalt	0.014	J	0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 06:27	1
Iron	67		0.20	0.20	mg/L		09/30/13 07:45	10/03/13 06:27	1
Lead	0.027		0.0075	0.0050	mg/L		09/30/13 07:45	10/03/13 06:27	1
Manganese	0.31		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 06:27	1
Nickel	0.056		0.025	0.010	mg/L		09/30/13 07:45	10/03/13 06:27	1
Selenium	<0.050		0.050	0.010	mg/L		09/30/13 07:45	10/03/13 06:27	1
Silver	<0.025		0.025	0.0050	mg/L		09/30/13 07:45	10/03/13 06:27	1
Zinc	0.90		0.10	0.020	mg/L		09/30/13 07:45	10/03/13 06:27	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/30/13 07:45	10/01/13 13:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/30/13 07:45	10/01/13 13:13	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.000020	mg/L		10/01/13 16:00	10/02/13 09:59	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0082	mg/Kg	☼	09/19/13 13:45	09/20/13 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.02		0.200	0.200	SU			10/04/13 10:13	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63234-12

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

16057 Cedar Road

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59556 Longitude: -87.97814

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1970505017 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59556 Longitude: -87.97814

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 846D-42-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE NO. 846D-42. SEE FIGURE 22 AND TABLE 3ah OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NO.: 500-63074-7

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

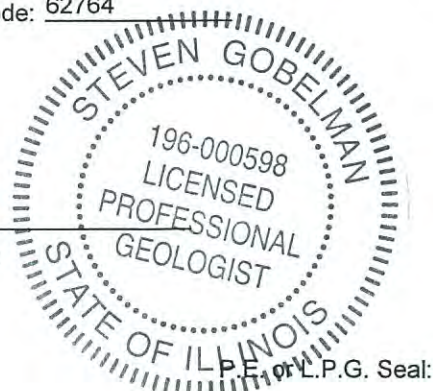
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-42

Homer Township Highway Department

Sample ID	846D-42-B01	846D-42-B02							
Sample Depth (ft)	0-2	0-2							
Sample Date	9/16/2013	9/16/2013							
PID	0	0							
Sample pH	8.45	7.95							
Matrix	Soil	Soil							
Inorganic Compounds, Total (mg/kg)			11.3	NA	11.3	NA	11.3	13	NA
Arsenic	8.1	12	1.3	NA	11.3	NA	11.3	13	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-63074-7
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/8/2013 3:48:23 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-7

Client Sample ID: 846D-42-B01

Lab Sample ID: 500-63074-24

Date Collected: 09/16/13 16:05

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 88.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0053		0.0053	0.0023	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Benzene	<0.0053		0.0053	0.00073	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Bromodichloromethane	<0.0053		0.0053	0.00091	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Carbon disulfide	<0.0053		0.0053	0.00079	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Carbon tetrachloride	<0.0053		0.0053	0.00096	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Chloroethane	<0.0053		0.0053	0.0014	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00069	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Dibromochloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
1,1-Dichloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
1,1-Dichloroethene	<0.0053		0.0053	0.00086	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
1,2-Dichloropropane	<0.0053		0.0053	0.00080	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00069	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00087	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Styrene	<0.0053		0.0053	0.00069	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00095	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Trichloroethene	<0.0053		0.0053	0.00087	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Vinyl acetate	<0.0053		0.0053	0.00083	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	09/16/13 16:05	09/19/13 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/16/13 16:05	09/19/13 01:05	1
Dibromofluoromethane	99		75 - 120	09/16/13 16:05	09/19/13 01:05	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/16/13 16:05	09/19/13 01:05	1
Toluene-d8 (Surr)	94		75 - 122	09/16/13 16:05	09/19/13 01:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-7

Client Sample ID: 846D-42-B01

Lab Sample ID: 500-63074-24

Date Collected: 09/16/13 16:05

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 88.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.056	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Diethyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Di-n-butyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-7

Client Sample ID: 846D-42-B01

Lab Sample ID: 500-63074-24

Date Collected: 09/16/13 16:05

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 88.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/19/13 07:24	09/25/13 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	09/19/13 07:24	09/25/13 23:29	1
Phenol-d5	56		31 - 110	09/19/13 07:24	09/25/13 23:29	1
Nitrobenzene-d5	53		25 - 115	09/19/13 07:24	09/25/13 23:29	1
2-Fluorobiphenyl	56		25 - 119	09/19/13 07:24	09/25/13 23:29	1
2,4,6-Tribromophenol	87		35 - 137	09/19/13 07:24	09/25/13 23:29	1
Terphenyl-d14	68		36 - 134	09/19/13 07:24	09/25/13 23:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		11	1.0	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Arsenic	8.1		0.55	0.11	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Barium	140		0.55	0.059	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Beryllium	0.72		0.22	0.019	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Boron	3.4		2.8	0.12	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Cadmium	0.46		0.11	0.014	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Calcium	10000		11	3.0	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Chromium	13		0.55	0.064	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Cobalt	11		0.28	0.020	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Copper	12		0.55	0.049	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Iron	18000		11	4.5	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Lead	19		0.28	0.082	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Magnesium	6500		5.5	1.1	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Manganese	150		0.55	0.030	mg/Kg	☼	09/17/13 08:00	10/05/13 17:54	1
Nickel	13		0.55	0.054	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Potassium	1100		28	1.7	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Selenium	0.56		0.55	0.20	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Sodium	210		55	7.4	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Vanadium	26		0.28	0.041	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1
Zinc	41		1.1	0.22	mg/Kg	☼	09/17/13 08:00	10/04/13 20:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.89		0.10	0.050	mg/L		10/06/13 14:30	10/07/13 13:24	1
Iron	<0.20		0.20	0.20	mg/L		10/06/13 14:30	10/07/13 13:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-7

Client Sample ID: 846D-42-B01

Lab Sample ID: 500-63074-24

Date Collected: 09/16/13 16:05

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2		0.50	0.010	mg/L		09/26/13 09:30	10/03/13 04:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/13 09:30	10/03/13 04:40	1
Boron	2.2		0.10	0.050	mg/L		09/26/13 09:30	10/03/13 04:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/26/13 09:30	10/03/13 04:40	1
Chromium	0.018	J	0.025	0.010	mg/L		09/26/13 09:30	10/03/13 04:40	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/26/13 09:30	10/03/13 04:40	1
Iron	13		0.20	0.20	mg/L		09/26/13 09:30	10/03/13 04:40	1
Lead	0.0058	J	0.0075	0.0050	mg/L		09/26/13 09:30	10/03/13 04:40	1
Manganese	0.068		0.025	0.010	mg/L		09/26/13 09:30	10/03/13 04:40	1
Nickel	0.012	J	0.025	0.010	mg/L		09/26/13 09:30	10/03/13 04:40	1
Selenium	<0.050		0.050	0.010	mg/L		09/26/13 09:30	10/03/13 04:40	1
Silver	<0.025		0.025	0.0050	mg/L		09/26/13 09:30	10/03/13 04:40	1
Zinc	0.91		0.10	0.020	mg/L		09/26/13 09:30	10/03/13 04:40	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/26/13 09:30	09/27/13 16:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/26/13 09:30	09/27/13 16:46	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000028	J	0.00020	0.000020	mg/L		09/26/13 16:30	09/27/13 11:35	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.018	0.0086	mg/Kg	☼	09/17/13 13:45	09/18/13 10:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.45		0.200	0.200	SU			10/01/13 16:12	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-7

Client Sample ID: 846D-42-B02

Lab Sample ID: 500-63074-25

Date Collected: 09/16/13 16:00

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 84.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Vinyl acetate	<0.0049		0.0049	0.00078	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	09/16/13 16:00	09/19/13 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/16/13 16:00	09/19/13 01:28	1
Dibromofluoromethane	101		75 - 120	09/16/13 16:00	09/19/13 01:28	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	09/16/13 16:00	09/19/13 01:28	1
Toluene-d8 (Surr)	93		75 - 122	09/16/13 16:00	09/19/13 01:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-7

Client Sample ID: 846D-42-B02

Lab Sample ID: 500-63074-25

Date Collected: 09/16/13 16:00

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-7

Client Sample ID: 846D-42-B02

Lab Sample ID: 500-63074-25

Date Collected: 09/16/13 16:00

Matrix: Solid

Date Received: 09/17/13 06:30

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	09/19/13 07:24	09/25/13 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		25 - 110	09/19/13 07:24	09/25/13 23:51	1
Phenol-d5	54		31 - 110	09/19/13 07:24	09/25/13 23:51	1
Nitrobenzene-d5	55		25 - 115	09/19/13 07:24	09/25/13 23:51	1
2-Fluorobiphenyl	52		25 - 119	09/19/13 07:24	09/25/13 23:51	1
2,4,6-Tribromophenol	73		35 - 137	09/19/13 07:24	09/25/13 23:51	1
Terphenyl-d14	65		36 - 134	09/19/13 07:24	09/25/13 23:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		11	1.0	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Arsenic	12		0.56	0.11	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Barium	59		0.56	0.060	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Beryllium	0.86		0.23	0.020	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Boron	5.0		2.8	0.12	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Cadmium	0.64		0.11	0.014	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Calcium	1500		11	3.0	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Chromium	20		0.56	0.065	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Cobalt	9.6		0.28	0.020	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Copper	32		0.56	0.050	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Iron	27000		11	4.6	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Lead	14		0.28	0.084	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Magnesium	3700		5.6	1.2	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Manganese	340		0.56	0.031	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Nickel	27		0.56	0.055	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Potassium	1600		28	1.7	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Sodium	700		56	7.5	mg/Kg	☼	09/17/13 08:00	10/07/13 12:59	1
Thallium	0.43 J		0.56	0.24	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Vanadium	24		0.28	0.042	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1
Zinc	65		1.1	0.23	mg/Kg	☼	09/17/13 08:00	10/05/13 18:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.2		0.10	0.050	mg/L		10/06/13 14:30	10/07/13 13:29	1
Iron	<0.20		0.20	0.20	mg/L		10/06/13 14:30	10/07/13 13:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-7

Client Sample ID: 846D-42-B02

Lab Sample ID: 500-63074-25

Date Collected: 09/16/13 16:00

Matrix: Solid

Date Received: 09/17/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		10/06/13 14:30	10/07/13 13:29	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.4		0.50	0.010	mg/L		09/26/13 09:30	10/03/13 04:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/13 09:30	10/03/13 04:46	1
Boron	2.5		0.10	0.050	mg/L		09/26/13 09:30	10/03/13 04:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/26/13 09:30	10/03/13 04:46	1
Chromium	0.031		0.025	0.010	mg/L		09/26/13 09:30	10/03/13 04:46	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/26/13 09:30	10/03/13 04:46	1
Iron	26		0.20	0.20	mg/L		09/26/13 09:30	10/03/13 04:46	1
Lead	0.0076		0.0075	0.0050	mg/L		09/26/13 09:30	10/03/13 04:46	1
Manganese	0.090		0.025	0.010	mg/L		09/26/13 09:30	10/03/13 04:46	1
Nickel	0.031		0.025	0.010	mg/L		09/26/13 09:30	10/03/13 04:46	1
Selenium	<0.050		0.050	0.010	mg/L		09/26/13 09:30	10/03/13 04:46	1
Silver	<0.025		0.025	0.0050	mg/L		09/26/13 09:30	10/03/13 04:46	1
Zinc	1.1		0.10	0.020	mg/L		09/26/13 09:30	10/03/13 04:46	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/26/13 09:30	09/27/13 16:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/26/13 09:30	09/27/13 16:50	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000050	J	0.00020	0.000020	mg/L		09/26/13 16:30	09/27/13 11:37	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.018	0.0085	mg/Kg	☼	09/17/13 13:45	09/18/13 10:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95		0.200	0.200	SU			10/01/13 16:10	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-63074-7

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14551 to 14741 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59890 Longitude: -87.97476
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)
Latitude: 41.59890 Longitude: -87.97476

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-45-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-45. SEE FIGURE 8 AND TABLE 3a OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-62722-4

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

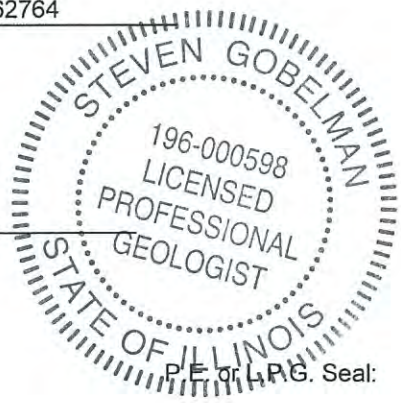
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment
Street Address: 2300 South Dirksen Parkway
City: Springfield State: IL Zip Code: 62764
Phone: 217-785-4246

Steven Gobelman
Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/12/14
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 846D-45
Farmland**

Sample ID	846D-45-B01	846D-45-B02									
Sample Depth (ft)	0-4	0-4									
Sample Date	9/10/2013	9/10/2013									
PID	0	0									
Sample pH	7.89	7.8									
Matrix	Soil	Soil									
Inorganic Compounds, Total (mg/kg)			12	1,3	11.3	NA	NA	11.3	NA	13	NA
Arsenic	6										

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62722-4
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/1/2013 4:25:44 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-4

Client Sample ID: 846D-45-B01

Lab Sample ID: 500-62722-9

Date Collected: 09/10/13 13:45

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼		09/11/13 19:12	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼		09/11/13 19:12	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼		09/11/13 19:12	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼		09/11/13 19:12	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼		09/11/13 19:12	1
2-Butanone (MEK)	<0.0048		0.0048	0.0018	mg/Kg	☼		09/11/13 19:12	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼		09/11/13 19:12	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼		09/11/13 19:12	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼		09/11/13 19:12	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼		09/11/13 19:12	1
Chloroform	<0.0048		0.0048	0.00056	mg/Kg	☼		09/11/13 19:12	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼		09/11/13 19:12	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼		09/11/13 19:12	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00064	mg/Kg	☼		09/11/13 19:12	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼		09/11/13 19:12	1
1,1-Dichloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼		09/11/13 19:12	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼		09/11/13 19:12	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼		09/11/13 19:12	1
1,2-Dichloropropane	<0.0048		0.0048	0.00074	mg/Kg	☼		09/11/13 19:12	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00064	mg/Kg	☼		09/11/13 19:12	1
Ethylbenzene	<0.0048		0.0048	0.00098	mg/Kg	☼		09/11/13 19:12	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼		09/11/13 19:12	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼		09/11/13 19:12	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼		09/11/13 19:12	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼		09/11/13 19:12	1
Styrene	<0.0048		0.0048	0.00064	mg/Kg	☼		09/11/13 19:12	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼		09/11/13 19:12	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼		09/11/13 19:12	1
Toluene	<0.0048		0.0048	0.00068	mg/Kg	☼		09/11/13 19:12	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼		09/11/13 19:12	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00087	mg/Kg	☼		09/11/13 19:12	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼		09/11/13 19:12	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼		09/11/13 19:12	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼		09/11/13 19:12	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼		09/11/13 19:12	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼		09/11/13 19:12	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼		09/11/13 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122		09/11/13 19:12	1
Dibromofluoromethane	101		75 - 120		09/11/13 19:12	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134		09/11/13 19:12	1
Toluene-d8 (Surr)	93		75 - 122		09/11/13 19:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼		09/24/13 15:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼		09/24/13 15:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼		09/24/13 15:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼		09/24/13 15:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-4

Client Sample ID: 846D-45-B01

Lab Sample ID: 500-62722-9

Date Collected: 09/10/13 13:45

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼		09/24/13 15:00	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼		09/24/13 15:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼		09/24/13 15:00	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼		09/24/13 15:00	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼		09/24/13 15:00	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼		09/24/13 15:00	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼		09/24/13 15:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼		09/24/13 15:00	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼		09/24/13 15:00	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼		09/24/13 15:00	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼		09/24/13 15:00	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼		09/24/13 15:00	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼		09/24/13 15:00	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼		09/24/13 15:00	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼		09/24/13 15:00	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼		09/24/13 15:00	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼		09/24/13 15:00	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼		09/24/13 15:00	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼		09/24/13 15:00	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼		09/24/13 15:00	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼		09/24/13 15:00	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼		09/24/13 15:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼		09/24/13 15:00	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼		09/24/13 15:00	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼		09/24/13 15:00	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼		09/24/13 15:00	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼		09/24/13 15:00	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼		09/24/13 15:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼		09/24/13 15:00	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼		09/24/13 15:00	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼		09/24/13 15:00	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼		09/24/13 15:00	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼		09/24/13 15:00	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼		09/24/13 15:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼		09/24/13 15:00	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼		09/24/13 15:00	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼		09/24/13 15:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼		09/24/13 15:00	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼		09/24/13 15:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼		09/24/13 15:00	1
4,6-Dinitro-2-methylphenol	<0.39	*	0.39	0.095	mg/Kg	☼		09/24/13 15:00	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼		09/24/13 15:00	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼		09/24/13 15:00	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼		09/24/13 15:00	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼		09/24/13 15:00	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼		09/24/13 15:00	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼		09/24/13 15:00	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼		09/24/13 15:00	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼		09/24/13 15:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-4

Client Sample ID: 846D-45-B01

Lab Sample ID: 500-62722-9

Date Collected: 09/10/13 13:45

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼		09/24/13 15:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼		09/24/13 15:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼		09/24/13 15:00	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼		09/24/13 15:00	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼		09/24/13 15:00	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼		09/24/13 15:00	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼		09/24/13 15:00	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼		09/24/13 15:00	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼		09/24/13 15:00	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼		09/24/13 15:00	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼		09/24/13 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		25 - 110		09/24/13 15:00	1
Phenol-d5	59		31 - 110		09/24/13 15:00	1
Nitrobenzene-d5	51		25 - 115		09/24/13 15:00	1
2-Fluorobiphenyl	54		25 - 119		09/24/13 15:00	1
2,4,6-Tribromophenol	48		35 - 137		09/24/13 15:00	1
Terphenyl-d14	82		36 - 134		09/24/13 15:00	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019	*	0.0019	0.00079	mg/Kg	☼		09/24/13 19:21	1
alpha-BHC	<0.0019	*	0.0019	0.00048	mg/Kg	☼		09/24/13 19:21	1
alpha-Chlordane	<0.0019		0.0019	0.00097	mg/Kg	☼		09/24/13 19:21	1
beta-BHC	<0.0019	*	0.0019	0.00059	mg/Kg	☼		09/24/13 19:21	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼		09/24/13 19:21	1
4,4'-DDE	<0.0019	*	0.0019	0.00032	mg/Kg	☼		09/24/13 19:21	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼		09/24/13 19:21	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼		09/24/13 19:21	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼		09/24/13 19:21	1
Endosulfan I	<0.0019		0.0019	0.00084	mg/Kg	☼		09/24/13 19:21	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼		09/24/13 19:21	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼		09/24/13 19:21	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼		09/24/13 19:21	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼		09/24/13 19:21	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼		09/24/13 19:21	1
gamma-BHC (Lindane)	<0.0019	*	0.0019	0.00041	mg/Kg	☼		09/24/13 19:21	1
gamma-Chlordane	<0.0019	*	0.0019	0.00050	mg/Kg	☼		09/24/13 19:21	1
Heptachlor	<0.0019	*	0.0019	0.00080	mg/Kg	☼		09/24/13 19:21	1
Heptachlor epoxide	<0.0019		0.0019	0.00068	mg/Kg	☼		09/24/13 19:21	1
Methoxychlor	<0.0095		0.0095	0.00037	mg/Kg	☼		09/24/13 19:21	1
Toxaphene	<0.019		0.019	0.0080	mg/Kg	☼		09/24/13 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	52	X	56 - 128		09/24/13 19:21	1
Tetrachloro-m-xylene	40	X	45 - 112		09/24/13 19:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-4

Client Sample ID: 846D-45-B01

Lab Sample ID: 500-62722-9

Date Collected: 09/10/13 13:45

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 82.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6500	B	11	1.0	mg/Kg	☼		09/29/13 17:06	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼		09/29/13 17:06	1
Arsenic	6.0		0.57	0.11	mg/Kg	☼		09/29/13 17:06	1
Barium	31		0.57	0.060	mg/Kg	☼		09/29/13 17:06	1
Beryllium	0.35		0.23	0.020	mg/Kg	☼		09/29/13 17:06	1
Boron	4.0		2.8	0.12	mg/Kg	☼		09/29/13 17:06	1
Cadmium	0.17	B	0.11	0.014	mg/Kg	☼		09/29/13 17:06	1
Calcium	33000	B	11	3.1	mg/Kg	☼		09/29/13 17:06	1
Chromium	12		0.57	0.066	mg/Kg	☼		09/29/13 17:06	1
Cobalt	7.1		0.28	0.020	mg/Kg	☼		09/29/13 17:06	1
Copper	20	B	0.57	0.050	mg/Kg	☼		09/29/13 17:06	1
Iron	17000		11	4.6	mg/Kg	☼		09/29/13 17:06	1
Lead	12		0.28	0.084	mg/Kg	☼		09/29/13 17:06	1
Magnesium	22000	B	5.7	1.2	mg/Kg	☼		09/29/13 17:06	1
Manganese	200		0.57	0.031	mg/Kg	☼		09/29/13 17:06	1
Nickel	18		0.57	0.055	mg/Kg	☼		09/29/13 17:06	1
Potassium	960		28	1.7	mg/Kg	☼		09/29/13 17:06	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼		09/29/13 17:06	1
Silver	<0.28		0.28	0.020	mg/Kg	☼		09/29/13 17:06	1
Sodium	170	B	57	7.6	mg/Kg	☼		09/29/13 17:06	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼		09/29/13 17:06	1
Vanadium	14		0.28	0.042	mg/Kg	☼		09/29/13 17:06	1
Zinc	50	B	1.1	0.23	mg/Kg	☼		09/29/13 17:06	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.24	J B	0.50	0.010	mg/L			09/25/13 17:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L			09/25/13 17:54	1
Boron	0.40	B	0.20	0.050	mg/L			09/25/13 17:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L			09/25/13 17:54	1
Chromium	<0.025		0.025	0.010	mg/L			09/25/13 17:54	1
Cobalt	<0.025		0.025	0.0050	mg/L			09/25/13 17:54	1
Iron	2.9		0.20	0.20	mg/L			09/25/13 17:54	1
Lead	<0.0075		0.0075	0.0050	mg/L			09/25/13 17:54	1
Manganese	0.022	J	0.025	0.010	mg/L			09/25/13 17:54	1
Nickel	<0.025		0.025	0.010	mg/L			09/25/13 17:54	1
Selenium	<0.050		0.050	0.010	mg/L			09/25/13 17:54	1
Silver	<0.025		0.025	0.0050	mg/L			09/25/13 17:54	1
Zinc	0.16	B	0.10	0.020	mg/L			09/25/13 17:54	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L			09/24/13 12:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L			09/24/13 12:07	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L			09/24/13 11:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-4

Client Sample ID: 846D-45-B01

Lab Sample ID: 500-62722-9

Date Collected: 09/10/13 13:45

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 82.2

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.020	0.0092	mg/Kg	☼		09/12/13 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.89		0.200	0.200	SU			09/23/13 21:07	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-4

Client Sample ID: 846D-45-B02

Lab Sample ID: 500-62722-10

Date Collected: 09/10/13 13:50

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 82.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼		09/11/13 19:35	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼		09/11/13 19:35	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼		09/11/13 19:35	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼		09/11/13 19:35	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼		09/11/13 19:35	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼		09/11/13 19:35	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼		09/11/13 19:35	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼		09/11/13 19:35	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼		09/11/13 19:35	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼		09/11/13 19:35	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼		09/11/13 19:35	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼		09/11/13 19:35	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼		09/11/13 19:35	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼		09/11/13 19:35	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼		09/11/13 19:35	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼		09/11/13 19:35	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼		09/11/13 19:35	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼		09/11/13 19:35	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼		09/11/13 19:35	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼		09/11/13 19:35	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼		09/11/13 19:35	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼		09/11/13 19:35	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼		09/11/13 19:35	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼		09/11/13 19:35	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼		09/11/13 19:35	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼		09/11/13 19:35	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼		09/11/13 19:35	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼		09/11/13 19:35	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼		09/11/13 19:35	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼		09/11/13 19:35	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼		09/11/13 19:35	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼		09/11/13 19:35	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼		09/11/13 19:35	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼		09/11/13 19:35	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼		09/11/13 19:35	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼		09/11/13 19:35	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼		09/11/13 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122		09/11/13 19:35	1
Dibromofluoromethane	103		75 - 120		09/11/13 19:35	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		09/11/13 19:35	1
Toluene-d8 (Surr)	94		75 - 122		09/11/13 19:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼		09/24/13 15:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼		09/24/13 15:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼		09/24/13 15:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼		09/24/13 15:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-4

Client Sample ID: 846D-45-B02

Lab Sample ID: 500-62722-10

Date Collected: 09/10/13 13:50

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼		09/24/13 15:21	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼		09/24/13 15:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼		09/24/13 15:21	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼		09/24/13 15:21	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼		09/24/13 15:21	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼		09/24/13 15:21	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼		09/24/13 15:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼		09/24/13 15:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼		09/24/13 15:21	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼		09/24/13 15:21	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼		09/24/13 15:21	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼		09/24/13 15:21	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼		09/24/13 15:21	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼		09/24/13 15:21	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼		09/24/13 15:21	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼		09/24/13 15:21	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼		09/24/13 15:21	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼		09/24/13 15:21	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼		09/24/13 15:21	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼		09/24/13 15:21	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼		09/24/13 15:21	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼		09/24/13 15:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼		09/24/13 15:21	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼		09/24/13 15:21	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	☼		09/24/13 15:21	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼		09/24/13 15:21	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼		09/24/13 15:21	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼		09/24/13 15:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼		09/24/13 15:21	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼		09/24/13 15:21	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼		09/24/13 15:21	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼		09/24/13 15:21	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼		09/24/13 15:21	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼		09/24/13 15:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼		09/24/13 15:21	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼		09/24/13 15:21	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼		09/24/13 15:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼		09/24/13 15:21	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼		09/24/13 15:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼		09/24/13 15:21	1
4,6-Dinitro-2-methylphenol	<0.39 *		0.39	0.096	mg/Kg	☼		09/24/13 15:21	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼		09/24/13 15:21	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼		09/24/13 15:21	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼		09/24/13 15:21	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼		09/24/13 15:21	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼		09/24/13 15:21	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼		09/24/13 15:21	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼		09/24/13 15:21	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼		09/24/13 15:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-4

Client Sample ID: 846D-45-B02

Lab Sample ID: 500-62722-10

Date Collected: 09/10/13 13:50

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0090	mg/Kg	☼		09/24/13 15:21	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼		09/24/13 15:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼		09/24/13 15:21	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼		09/24/13 15:21	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼		09/24/13 15:21	1
Benzo[k]fluoranthene	<0.039		0.039	0.0095	mg/Kg	☼		09/24/13 15:21	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼		09/24/13 15:21	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼		09/24/13 15:21	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼		09/24/13 15:21	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼		09/24/13 15:21	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼		09/24/13 15:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	34		25 - 110					09/24/13 15:21	1
Phenol-d5	35		31 - 110					09/24/13 15:21	1
Nitrobenzene-d5	35		25 - 115					09/24/13 15:21	1
2-Fluorobiphenyl	37		25 - 119					09/24/13 15:21	1
2,4,6-Tribromophenol	44		35 - 137					09/24/13 15:21	1
Terphenyl-d14	56		36 - 134					09/24/13 15:21	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020	*	0.0020	0.00081	mg/Kg	☼		09/24/13 19:41	1
alpha-BHC	<0.0020	*	0.0020	0.00050	mg/Kg	☼		09/24/13 19:41	1
alpha-Chlordane	<0.0020		0.0020	0.00099	mg/Kg	☼		09/24/13 19:41	1
beta-BHC	<0.0020	*	0.0020	0.00061	mg/Kg	☼		09/24/13 19:41	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼		09/24/13 19:41	1
4,4'-DDE	<0.0020	*	0.0020	0.00033	mg/Kg	☼		09/24/13 19:41	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼		09/24/13 19:41	1
delta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼		09/24/13 19:41	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼		09/24/13 19:41	1
Endosulfan I	<0.0020		0.0020	0.00086	mg/Kg	☼		09/24/13 19:41	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼		09/24/13 19:41	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼		09/24/13 19:41	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼		09/24/13 19:41	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼		09/24/13 19:41	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼		09/24/13 19:41	1
gamma-BHC (Lindane)	<0.0020	*	0.0020	0.00043	mg/Kg	☼		09/24/13 19:41	1
gamma-Chlordane	<0.0020	*	0.0020	0.00052	mg/Kg	☼		09/24/13 19:41	1
Heptachlor	<0.0020	*	0.0020	0.00082	mg/Kg	☼		09/24/13 19:41	1
Heptachlor epoxide	<0.0020		0.0020	0.00070	mg/Kg	☼		09/24/13 19:41	1
Methoxychlor	<0.0098		0.0098	0.00038	mg/Kg	☼		09/24/13 19:41	1
Toxaphene	<0.020		0.020	0.0083	mg/Kg	☼		09/24/13 19:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		56 - 128					09/24/13 19:41	1
Tetrachloro-m-xylene	52		45 - 112					09/24/13 19:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-4

Client Sample ID: 846D-45-B02

Lab Sample ID: 500-62722-10

Date Collected: 09/10/13 13:50

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 82.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8800	B	12	1.1	mg/Kg	☼		09/29/13 17:11	1
Antimony	<1.2		1.2	0.48	mg/Kg	☼		09/29/13 17:11	1
Arsenic	12		0.60	0.12	mg/Kg	☼		09/29/13 17:11	1
Barium	45		0.60	0.064	mg/Kg	☼		09/29/13 17:11	1
Beryllium	0.48		0.24	0.021	mg/Kg	☼		09/29/13 17:11	1
Boron	3.6		3.0	0.13	mg/Kg	☼		09/29/13 17:11	1
Cadmium	0.21	B	0.12	0.015	mg/Kg	☼		09/29/13 17:11	1
Calcium	1700	B	12	3.3	mg/Kg	☼		09/29/13 17:11	1
Chromium	16		0.60	0.070	mg/Kg	☼		09/29/13 17:11	1
Cobalt	12		0.30	0.021	mg/Kg	☼		09/29/13 17:11	1
Copper	33	B	0.60	0.053	mg/Kg	☼		09/29/13 17:11	1
Iron	28000		12	4.9	mg/Kg	☼		09/29/13 17:11	1
Lead	19		0.30	0.090	mg/Kg	☼		09/29/13 17:11	1
Magnesium	3500	B	6.0	1.2	mg/Kg	☼		09/29/13 17:11	1
Manganese	260		0.60	0.033	mg/Kg	☼		09/29/13 17:11	1
Nickel	33		0.60	0.059	mg/Kg	☼		09/29/13 17:11	1
Potassium	1100		30	1.8	mg/Kg	☼		09/29/13 17:11	1
Selenium	0.34	J	0.60	0.21	mg/Kg	☼		09/29/13 17:11	1
Silver	<0.30		0.30	0.022	mg/Kg	☼		09/29/13 17:11	1
Sodium	670	B	60	8.1	mg/Kg	☼		09/29/13 17:11	1
Thallium	0.34	J	0.60	0.25	mg/Kg	☼		09/29/13 17:11	1
Vanadium	20		0.30	0.044	mg/Kg	☼		09/29/13 17:11	1
Zinc	83	B	1.2	0.24	mg/Kg	☼		09/29/13 17:11	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27	J B	0.50	0.010	mg/L			09/25/13 17:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L			09/25/13 17:58	1
Boron	0.42	B	0.20	0.050	mg/L			09/25/13 17:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L			09/25/13 17:58	1
Chromium	<0.025		0.025	0.010	mg/L			09/25/13 17:58	1
Cobalt	<0.025		0.025	0.0050	mg/L			09/25/13 17:58	1
Iron	0.60		0.20	0.20	mg/L			09/25/13 17:58	1
Lead	<0.0075		0.0075	0.0050	mg/L			09/25/13 17:58	1
Manganese	<0.025		0.025	0.010	mg/L			09/25/13 17:58	1
Nickel	<0.025		0.025	0.010	mg/L			09/25/13 17:58	1
Selenium	<0.050		0.050	0.010	mg/L			09/25/13 17:58	1
Silver	<0.025		0.025	0.0050	mg/L			09/25/13 17:58	1
Zinc	0.17	B	0.10	0.020	mg/L			09/25/13 17:58	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L			09/24/13 12:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L			09/24/13 12:11	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L			09/24/13 11:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-4

Client Sample ID: 846D-45-B02

Lab Sample ID: 500-62722-10

Date Collected: 09/10/13 13:50

Matrix: Solid

Date Received: 09/11/13 06:15

Percent Solids: 82.9

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0091	mg/Kg	☼		09/12/13 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.80		0.200	0.200	SU			09/23/13 21:07	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62722-4

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14549 159th Street

City: Lockport State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59889 Longitude: -87.97258
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59889 Longitude: -87.97258

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATION 846D-46-B02 WAS SAMPLED ADJACENT TO SITE NO. 846D-46. SEE FIGURE 8 AND TABLE 3aj OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60686-3

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

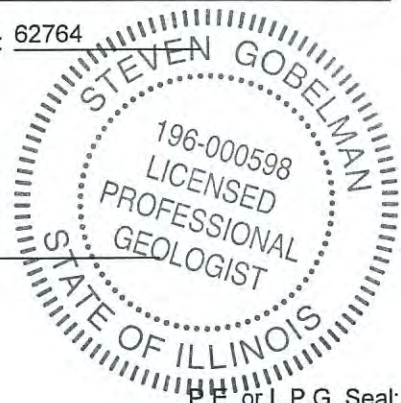
Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14
Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-60686-3
Client Project/Site: IDOT - Gougar - WO 023
Revision: 1

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/18/2013 3:56:44 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-3

Client Sample ID: 846D-46-B02

Lab Sample ID: 500-60686-16

Date Collected: 08/07/13 14:00

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 83.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00062	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00062	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0012	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Styrene	<0.0048		0.0048	0.00062	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	08/07/13 14:00	08/14/13 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	08/07/13 14:00	08/14/13 17:48	1
Dibromofluoromethane	100		75 - 120	08/07/13 14:00	08/14/13 17:48	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/07/13 14:00	08/14/13 17:48	1
Toluene-d8 (Surr)	102		75 - 122	08/07/13 14:00	08/14/13 17:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-3

Client Sample ID: 846D-46-B02

Lab Sample ID: 500-60686-16

Date Collected: 08/07/13 14:00

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-3

Client Sample ID: 846D-46-B02

Lab Sample ID: 500-60686-16

Date Collected: 08/07/13 14:00

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/16/13 07:11	08/20/13 21:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	29	X	30 - 110	08/16/13 07:11	08/20/13 21:56	1
Phenol-d5	37		31 - 110	08/16/13 07:11	08/20/13 21:56	1
Nitrobenzene-d5	38		30 - 115	08/16/13 07:11	08/20/13 21:56	1
2-Fluorobiphenyl	43		30 - 119	08/16/13 07:11	08/20/13 21:56	1
2,4,6-Tribromophenol	43		35 - 137	08/16/13 07:11	08/20/13 21:56	1
Terphenyl-d14	75		36 - 134	08/16/13 07:11	08/20/13 21:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Arsenic	13		0.59	0.12	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Barium	51		0.59	0.063	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Beryllium	0.49		0.24	0.021	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Boron	3.0	B	2.9	0.12	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Cadmium	0.20		0.12	0.015	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Calcium	3100		12	3.2	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Chromium	15		0.59	0.068	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Cobalt	9.9		0.29	0.021	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Copper	30	B	0.59	0.052	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Iron	26000		12	4.8	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Lead	21		0.29	0.088	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Magnesium	4500	B	5.9	1.2	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Manganese	350		0.59	0.032	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Nickel	33		0.59	0.058	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Potassium	960		29	1.8	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Selenium	0.45	J	0.59	0.21	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Sodium	95		59	7.9	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Thallium	0.56	J	0.59	0.25	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Vanadium	13		0.29	0.044	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Zinc	87	B	1.2	0.24	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1
Aluminum	8800		12	1.1	mg/Kg	☼	08/08/13 15:00	08/13/13 21:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 06:11	1
Lead	0.0082		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 06:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-3

Client Sample ID: 846D-46-B02

Lab Sample ID: 500-60686-16

Date Collected: 08/07/13 14:00

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71		0.50	0.010	mg/L		08/16/13 10:00	09/08/13 15:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 10:00	09/08/13 15:27	1
Boron	1.0		0.10	0.050	mg/L		08/16/13 10:00	09/08/13 15:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 10:00	09/08/13 15:27	1
Chromium	0.017	J	0.025	0.010	mg/L		08/16/13 10:00	09/08/13 15:27	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 15:27	1
Iron	18		0.20	0.20	mg/L		08/16/13 10:00	09/08/13 15:27	1
Lead	0.010		0.0075	0.0050	mg/L		08/16/13 10:00	09/08/13 15:27	1
Manganese	0.064		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 15:27	1
Nickel	0.016	J	0.025	0.010	mg/L		08/16/13 10:00	09/08/13 15:27	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 10:00	09/08/13 15:27	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 15:27	1
Zinc	0.59		0.10	0.020	mg/L		08/16/13 10:00	09/08/13 15:27	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 10:00	08/19/13 13:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 10:00	08/19/13 13:28	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/16/13 16:00	08/19/13 11:22	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.020	0.0093	mg/Kg	✱	08/14/13 13:00	08/15/13 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.53		0.200	0.200	SU			08/20/13 18:52	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Name: US6/IL7 Wilco Cook Co. Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: AED		COC No.: 1 of 1 Lab Job No.: 500-60686 Sample Temp: 42.38/3.5 Matrix Key:										
				<p>W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other</p>												
				<p>Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.</p>												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
14	846D46-B01	8/7	1:30	S	X	X					X	X	X	X		0-5
15	846D-46-B01-DUP	↓	1:15	S	X	X					X	X	X	X		0-5
16	846D-46-B02	↓	2:00	S	X	X					X	X	X	X		0-5
<p>Relinquished by: <i>[Signature]</i> Date/Time: 8/7/13 3:05 Received by: <i>[Signature]</i> Date/Time: 8/23/13 15:25</p> <p>Relinquished by: <i>[Signature]</i> Date/Time: 8/23/13/16/10 Received by: <i>[Signature]</i> Date/Time: 8/13/16/10</p> <p>Relinquished by: <i>[Signature]</i> Date/Time: Received by: <i>[Signature]</i> Date/Time:</p>																



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
14447 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59897 Longitude: -87.97012
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)Latitude: 41.59897 Longitude: -87.97012Uncontaminated Site Certification**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-47-B02 AND -B04 WERE SAMPLED ADJACENT TO SITE NO. 846D-47. SEE FIGURES 8 & 9, AND TABLE 3ak OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-60686-4 AND 500-61359-1

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246

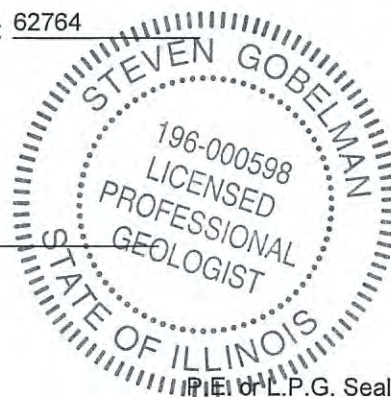
Steven Gobelman

Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-47

DiNolfo's Banquets

Sample ID	846D-47-B02	846D-47-B04					
Sample Depth (ft)	0-5	0-5					
Sample Date	8/7/2013	8/16/2013					
PID	0	0					
Sample pH	8.05	7.05					
Matrix	Soil	Soil					

No Contaminants of Concern Noted.

	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61359-1
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/12/2013 12:50:44 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-1

Client Sample ID: 846D-47-B04

Lab Sample ID: 500-61359-2

Date Collected: 08/16/13 13:35

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 81.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.022		0.0053	0.0023	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Benzene	<0.0053		0.0053	0.00073	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Bromodichloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
2-Butanone (MEK)	0.0051	J	0.0053	0.0019	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Carbon disulfide	<0.0053		0.0053	0.00080	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Carbon tetrachloride	<0.0053		0.0053	0.00097	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Chloroethane	<0.0053		0.0053	0.0014	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00070	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Dibromochloromethane	<0.0053		0.0053	0.00093	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
1,1-Dichloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
1,1-Dichloroethene	<0.0053		0.0053	0.00086	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
1,2-Dichloropropane	<0.0053		0.0053	0.00081	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00070	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00088	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Styrene	<0.0053		0.0053	0.00070	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Toluene	<0.0053		0.0053	0.00075	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00095	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00080	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00073	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Trichloroethene	<0.0053		0.0053	0.00088	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Vinyl acetate	<0.0053		0.0053	0.00084	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	08/16/13 13:35	08/20/13 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	08/16/13 13:35	08/20/13 18:09	1
Dibromofluoromethane	102		75 - 120	08/16/13 13:35	08/20/13 18:09	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/16/13 13:35	08/20/13 18:09	1
Toluene-d8 (Surr)	102		75 - 122	08/16/13 13:35	08/20/13 18:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-1

Client Sample ID: 846D-47-B04

Lab Sample ID: 500-61359-2

Date Collected: 08/16/13 13:35

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Pyrene	0.019	J	0.039	0.014	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Benzo[a]anthracene	0.0082	J	0.039	0.0082	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-1

Client Sample ID: 846D-47-B04

Lab Sample ID: 500-61359-2

Date Collected: 08/16/13 13:35

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.039	0.0088	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Benzo[b]fluoranthene	0.012	J	0.039	0.0076	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Benzo[a]pyrene	0.0085	J	0.039	0.0071	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/28/13 20:04	08/31/13 03:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	34		25 - 110				08/28/13 20:04	08/31/13 03:18	1
Phenol-d5	29	X	31 - 110				08/28/13 20:04	08/31/13 03:18	1
Nitrobenzene-d5	38		25 - 115				08/28/13 20:04	08/31/13 03:18	1
2-Fluorobiphenyl	42		25 - 119				08/28/13 20:04	08/31/13 03:18	1
2,4,6-Tribromophenol	49		35 - 137				08/28/13 20:04	08/31/13 03:18	1
Terphenyl-d14	95		36 - 134				08/28/13 20:04	08/31/13 03:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Arsenic	7.3		0.60	0.12	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Barium	80		0.60	0.065	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Beryllium	0.67		0.24	0.021	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Boron	2.6	J	3.0	0.13	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Cadmium	0.42		0.12	0.015	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Calcium	5300	B	12	3.3	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Chromium	15		0.60	0.070	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Cobalt	9.9		0.30	0.022	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Copper	19		0.60	0.053	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Iron	18000	B	12	5.0	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Lead	24		0.30	0.090	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Magnesium	4100	B	6.0	1.2	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Manganese	550	B	0.60	0.033	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Nickel	18	B	0.60	0.059	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Potassium	1200		30	1.8	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Selenium	1.0		0.60	0.21	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Sodium	60		60	8.1	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Thallium	<0.60		0.60	0.25	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Vanadium	21		0.30	0.045	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Zinc	58		1.2	0.24	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1
Aluminum	10000		12	1.1	mg/Kg	☼	08/20/13 16:00	08/30/13 03:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.47		0.20	0.20	mg/L		09/11/13 07:45	09/12/13 02:45	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 07:45	09/12/13 02:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-1

Client Sample ID: 846D-47-B04

Lab Sample ID: 500-61359-2

Date Collected: 08/16/13 13:35

Matrix: Solid

Date Received: 08/16/13 15:20

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.54	B	0.50	0.010	mg/L		08/23/13 08:29	09/08/13 17:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/23/13 08:29	09/08/13 17:38	1
Boron	0.70		0.10	0.050	mg/L		08/23/13 08:29	09/08/13 17:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/23/13 08:29	09/08/13 17:38	1
Chromium	0.024	J	0.025	0.010	mg/L		08/23/13 08:29	09/08/13 17:38	1
Cobalt	0.0068	J	0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 17:38	1
Iron	18		0.20	0.20	mg/L		08/23/13 08:29	09/08/13 17:38	1
Lead	0.019		0.0075	0.0050	mg/L		08/23/13 08:29	09/08/13 17:38	1
Manganese	0.11		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 17:38	1
Nickel	0.019	J	0.025	0.010	mg/L		08/23/13 08:29	09/08/13 17:38	1
Selenium	<0.050		0.050	0.010	mg/L		08/23/13 08:29	09/08/13 17:38	1
Silver	<0.025		0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 17:38	1
Zinc	0.38		0.10	0.020	mg/L		08/23/13 08:29	09/08/13 17:38	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/23/13 08:29	08/26/13 18:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/23/13 08:29	08/26/13 18:14	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/23/13 15:00	08/26/13 12:51	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	0.0095	mg/Kg	✱	08/21/13 13:00	08/22/13 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.05		0.200	0.200	SU			08/29/13 17:17	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-60686-4
Client Project/Site: IDOT - Gougar - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/11/2013 4:20:44 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-4

Client Sample ID: 846D-47-B02

Lab Sample ID: 500-60686-18

Date Collected: 08/07/13 14:15

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0078		0.0047	0.0020	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
1,1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	08/07/13 14:15	08/14/13 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	08/07/13 14:15	08/14/13 18:35	1
Dibromofluoromethane	100		75 - 120	08/07/13 14:15	08/14/13 18:35	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/07/13 14:15	08/14/13 18:35	1
Toluene-d8 (Surr)	101		75 - 122	08/07/13 14:15	08/14/13 18:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-4

Client Sample ID: 846D-47-B02

Lab Sample ID: 500-60686-18

Date Collected: 08/07/13 14:15

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-4

Client Sample ID: 846D-47-B02

Lab Sample ID: 500-60686-18

Date Collected: 08/07/13 14:15

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/16/13 07:11	08/20/13 22:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	27	X	30 - 110				08/16/13 07:11	08/20/13 22:34	1
Phenol-d5	34		31 - 110				08/16/13 07:11	08/20/13 22:34	1
Nitrobenzene-d5	29	X	30 - 115				08/16/13 07:11	08/20/13 22:34	1
2-Fluorobiphenyl	35		30 - 119				08/16/13 07:11	08/20/13 22:34	1
2,4,6-Tribromophenol	39		35 - 137				08/16/13 07:11	08/20/13 22:34	1
Terphenyl-d14	56		36 - 134				08/16/13 07:11	08/20/13 22:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Arsenic	9.7		0.57	0.11	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Barium	62		0.57	0.061	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Beryllium	0.63		0.23	0.020	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Boron	3.9	B	2.8	0.12	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Cadmium	0.16		0.11	0.014	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Calcium	13000		11	3.1	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Chromium	17		0.57	0.066	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Cobalt	15		0.28	0.020	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Copper	25	B	0.57	0.051	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Iron	22000		11	4.7	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Lead	21		0.28	0.085	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Magnesium	8600	B	5.7	1.2	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Manganese	350		0.57	0.031	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Nickel	37		0.57	0.056	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Potassium	1200		28	1.7	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Selenium	0.49	J	0.57	0.20	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Sodium	280		57	7.6	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Thallium	0.32	J	0.57	0.24	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Vanadium	19		0.28	0.042	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Zinc	73	B	1.1	0.23	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1
Aluminum	11000		11	1.0	mg/Kg	☼	08/08/13 15:00	08/13/13 22:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 09:30	09/10/13 17:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-4

Client Sample ID: 846D-47-B02

Lab Sample ID: 500-60686-18

Date Collected: 08/07/13 14:15

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.78		0.50	0.010	mg/L		08/16/13 10:00	09/08/13 15:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 10:00	09/08/13 15:54	1
Boron	1.1		0.10	0.050	mg/L		08/16/13 10:00	09/08/13 15:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 10:00	09/08/13 15:54	1
Chromium	0.010	J	0.025	0.010	mg/L		08/16/13 10:00	09/08/13 15:54	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 15:54	1
Iron	6.6		0.20	0.20	mg/L		08/16/13 10:00	09/08/13 15:54	1
Lead	0.0054	J	0.0075	0.0050	mg/L		08/16/13 10:00	09/08/13 15:54	1
Manganese	0.040		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 15:54	1
Nickel	<0.025		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 15:54	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 10:00	09/08/13 15:54	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 15:54	1
Zinc	0.62		0.10	0.020	mg/L		08/16/13 10:00	09/08/13 15:54	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 10:00	08/19/13 13:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 10:00	08/19/13 13:30	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/16/13 16:00	08/19/13 11:30	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.020	0.0092	mg/Kg	✱	08/14/13 13:00	08/15/13 10:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.05		0.200	0.200	SU			08/20/13 18:57	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-4

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14367 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59909 Longitude: -87.96758
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59909 Longitude: -87.96758

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-48-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-48. SEE FIGURE 9 AND TABLE 3a OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-62485-1

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

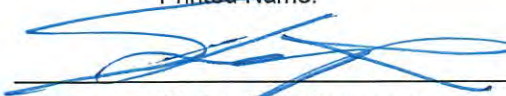
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

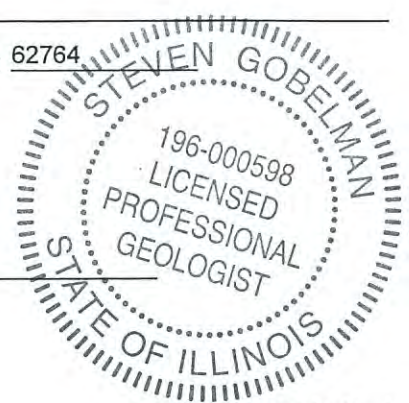
Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14
 Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-48

Eagle Rock Community Church

Sample ID	846D-48-B01	846D-48-B02						
Sample Depth (ft)	0-4	0-4						
Sample Date	9/5/2013	9/5/2013						
PID	0	0						
Sample pH	8.46	8.61						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								
			¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non- Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62485-1
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/26/2013 9:57:48 AM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-1

Client Sample ID: 846D-48-B01

Lab Sample ID: 500-62485-1

Date Collected: 09/05/13 09:40

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.021		0.0041	0.0018	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	09/05/13 09:40	09/09/13 11:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/05/13 09:40	09/09/13 11:38	1
Dibromofluoromethane	102		75 - 120	09/05/13 09:40	09/09/13 11:38	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	09/05/13 09:40	09/09/13 11:38	1
Toluene-d8 (Surr)	96		75 - 122	09/05/13 09:40	09/09/13 11:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-1

Client Sample ID: 846D-48-B01

Lab Sample ID: 500-62485-1

Date Collected: 09/05/13 09:40

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
2,4-Dimethylphenol	<0.38	*	0.38	0.12	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Hexachlorocyclopentadiene	<0.77	*	0.77	0.18	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
4-Nitrophenol	<0.77	*	0.77	0.21	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Pentachlorophenol	<0.77	*	0.77	0.19	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-1

Client Sample ID: 846D-48-B01

Lab Sample ID: 500-62485-1

Date Collected: 09/05/13 09:40

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/16/13 07:41	09/19/13 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		25 - 110				09/16/13 07:41	09/19/13 00:18	1
Phenol-d5	71		31 - 110				09/16/13 07:41	09/19/13 00:18	1
Nitrobenzene-d5	61		25 - 115				09/16/13 07:41	09/19/13 00:18	1
2-Fluorobiphenyl	65		25 - 119				09/16/13 07:41	09/19/13 00:18	1
2,4,6-Tribromophenol	88		35 - 137				09/16/13 07:41	09/19/13 00:18	1
Terphenyl-d14	114		36 - 134				09/16/13 07:41	09/19/13 00:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300		11	0.99	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Arsenic	5.8		0.54	0.11	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Barium	40		0.54	0.058	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Beryllium	0.62		0.22	0.019	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Boron	6.4		2.7	0.11	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Cadmium	0.47		0.11	0.014	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Calcium	37000	B	11	2.9	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Chromium	17		0.54	0.062	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Cobalt	8.4		0.27	0.019	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Copper	21	B	0.54	0.048	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Iron	18000		11	4.4	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Lead	11	B	0.27	0.080	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Magnesium	22000	B	5.4	1.1	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Manganese	320	B	0.54	0.029	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Nickel	22	B	0.54	0.053	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Potassium	1600		27	1.6	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Selenium	0.60		0.54	0.19	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Silver	0.019	J	0.27	0.019	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Sodium	1300	B	54	7.2	mg/Kg	☼	09/09/13 10:30	09/18/13 20:33	1
Thallium	0.73		0.54	0.23	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Vanadium	17		0.27	0.040	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1
Zinc	58	B	1.1	0.22	mg/Kg	☼	09/09/13 10:30	09/17/13 17:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/19/13 09:00	09/20/13 02:48	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/19/13 09:00	09/20/13 02:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-1

Client Sample ID: 846D-48-B01

Lab Sample ID: 500-62485-1

Date Collected: 09/05/13 09:40

Matrix: Solid

Date Received: 09/06/13 06:15

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L		09/19/13 09:00	09/20/13 02:48	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	B	0.50	0.010	mg/L		09/09/13 08:15	09/12/13 17:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/13 08:15	09/12/13 17:22	1
Boron	1.1	B	0.10	0.050	mg/L		09/09/13 08:15	09/12/13 17:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/13 08:15	09/12/13 17:22	1
Chromium	0.078		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 17:22	1
Cobalt	0.027		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 17:22	1
Iron	76		0.20	0.20	mg/L		09/09/13 08:15	09/12/13 17:22	1
Lead	0.072		0.0075	0.0050	mg/L		09/09/13 08:15	09/12/13 17:22	1
Manganese	0.86		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 17:22	1
Nickel	0.088		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 17:22	1
Selenium	<0.050		0.050	0.010	mg/L		09/09/13 08:15	09/12/13 17:22	1
Silver	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 17:22	1
Zinc	0.84	B	0.10	0.020	mg/L		09/09/13 08:15	09/12/13 17:22	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/09/13 08:15	09/11/13 17:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/13 08:15	09/11/13 17:29	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 10:18	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.020	0.0092	mg/Kg	☼	09/06/13 14:30	09/09/13 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		0.200	0.200	SU			09/16/13 13:09	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-1

Client Sample ID: 846D-48-B02

Lab Sample ID: 500-62485-2

Date Collected: 09/05/13 09:50

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 86.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0040		0.0040	0.0017	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Bromodichloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Bromoform	<0.0040		0.0040	0.00093	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Carbon tetrachloride	<0.0040		0.0040	0.00074	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Chloromethane	<0.0040		0.0040	0.00085	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
1,1-Dichloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
1,1-Dichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Ethylbenzene	<0.0040		0.0040	0.00082	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0011	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00067	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Tetrachloroethene	<0.0040		0.0040	0.00062	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Toluene	<0.0040		0.0040	0.00057	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Trichloroethene	<0.0040		0.0040	0.00067	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Vinyl acetate	<0.0040		0.0040	0.00064	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Vinyl chloride	<0.0040		0.0040	0.00085	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	09/05/13 09:50	09/09/13 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/05/13 09:50	09/09/13 12:01	1
Dibromofluoromethane	101		75 - 120	09/05/13 09:50	09/09/13 12:01	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/05/13 09:50	09/09/13 12:01	1
Toluene-d8 (Surr)	98		75 - 122	09/05/13 09:50	09/09/13 12:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-1

Client Sample ID: 846D-48-B02

Lab Sample ID: 500-62485-2

Date Collected: 09/05/13 09:50

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
2,4-Dimethylphenol	<0.36	*	0.36	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Hexachlorocyclopentadiene	<0.74	*	0.74	0.17	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
4-Nitrophenol	<0.74	*	0.74	0.20	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Pentachlorophenol	<0.74	*	0.74	0.19	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-1

Client Sample ID: 846D-48-B02

Lab Sample ID: 500-62485-2

Date Collected: 09/05/13 09:50

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Benzo[b]fluoranthene	0.0093	J	0.036	0.0071	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	09/16/13 07:41	09/19/13 00:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		25 - 110				09/16/13 07:41	09/19/13 00:39	1
Phenol-d5	92		31 - 110				09/16/13 07:41	09/19/13 00:39	1
Nitrobenzene-d5	76		25 - 115				09/16/13 07:41	09/19/13 00:39	1
2-Fluorobiphenyl	83		25 - 119				09/16/13 07:41	09/19/13 00:39	1
2,4,6-Tribromophenol	96		35 - 137				09/16/13 07:41	09/19/13 00:39	1
Terphenyl-d14	146	X	36 - 134				09/16/13 07:41	09/19/13 00:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6700		12	1.1	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Antimony	<1.2		1.2	0.46	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Arsenic	6.5		0.58	0.11	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Barium	28		0.58	0.062	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Beryllium	0.55		0.23	0.020	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Boron	7.3		2.9	0.12	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Cadmium	0.44		0.12	0.015	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Calcium	57000	B	12	3.1	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Chromium	13		0.58	0.067	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Cobalt	8.6		0.29	0.021	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Copper	20	B	0.58	0.051	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Iron	17000		12	4.7	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Lead	11	B	0.29	0.086	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Magnesium	26000	B	5.8	1.2	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Manganese	360	B	0.58	0.031	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Nickel	25	B	0.58	0.056	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Potassium	1600		29	1.7	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Selenium	0.54	J	0.58	0.20	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Sodium	870	B	58	7.7	mg/Kg	☼	09/09/13 10:30	09/18/13 21:05	1
Thallium	0.69		0.58	0.24	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Vanadium	16		0.29	0.043	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1
Zinc	49	B	1.2	0.23	mg/Kg	☼	09/09/13 10:30	09/17/13 18:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/19/13 09:00	09/20/13 03:08	1
Chromium	<0.025		0.025	0.010	mg/L		09/19/13 09:00	09/20/13 03:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-1

Client Sample ID: 846D-48-B02

Lab Sample ID: 500-62485-2

Date Collected: 09/05/13 09:50

Matrix: Solid

Date Received: 09/06/13 06:15

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.31		0.20	0.20	mg/L		09/19/13 09:00	09/20/13 03:08	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/19/13 09:00	09/20/13 03:08	1
Manganese	3.1		0.025	0.010	mg/L		09/19/13 09:00	09/20/13 03:08	1
Nickel	0.032		0.025	0.010	mg/L		09/19/13 09:00	09/20/13 03:08	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1	B	0.50	0.010	mg/L		09/09/13 08:15	09/12/13 17:46	1
Beryllium	0.0042		0.0040	0.0040	mg/L		09/09/13 08:15	09/12/13 17:46	1
Boron	1.1	B	0.10	0.050	mg/L		09/09/13 08:15	09/12/13 17:46	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		09/09/13 08:15	09/12/13 17:46	1
Chromium	0.11		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 17:46	1
Cobalt	0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 17:46	1
Iron	120		0.20	0.20	mg/L		09/09/13 08:15	09/12/13 17:46	1
Lead	0.069		0.0075	0.0050	mg/L		09/09/13 08:15	09/12/13 17:46	1
Manganese	0.45		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 17:46	1
Nickel	0.13		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 17:46	1
Selenium	<0.050		0.050	0.010	mg/L		09/09/13 08:15	09/12/13 17:46	1
Silver	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 17:46	1
Zinc	1.0	B	0.10	0.020	mg/L		09/09/13 08:15	09/12/13 17:46	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/19/13 09:00	09/19/13 18:08	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/09/13 08:15	09/17/13 17:09	1
Thallium	0.0029		0.0020	0.0020	mg/L		09/09/13 08:15	09/11/13 17:35	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022		0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 10:20	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0081	mg/Kg	☼	09/06/13 14:30	09/09/13 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.61		0.200	0.200	SU			09/16/13 13:11	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14252 to 14366 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59934 Longitude: -87.96721

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59934 Longitude: -87.96721

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 846D-49-B01 THROUGH -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-49. SEE FIGURES 9 AND 10, AND TABLE 3am OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60686-5

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date:

11/13/14



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-49

Vacant Area

Sample ID	846D-49-B01-1	846D-49-B01-2	846D-49-B01-2 DUP	846D-49-B02-1	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-8	8-16	8-16	0-8						
Sample Date	8/7/2013	8/7/2013	8/7/2013	8/7/2013						
PID	0	0	0	0						
Sample pH	7.89	8.05	7.7	8.19						
Matrix	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

Sample ID	846D-49-B02-2	846D-49-B03-1	846D-49-B03-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	8-16	0-8	8-16						
Sample Date	8/7/2013	8/7/2013	8/7/2013						
PID	0	0	0						
Sample pH	8.14	8.2	8.22						
Matrix	Soil	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-60686-5
Client Project/Site: IDOT - Gougar - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/11/2013 2:05:05 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B01-1

Lab Sample ID: 500-60686-19

Date Collected: 08/07/13 10:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 80.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	08/07/13 10:10	08/14/13 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	08/07/13 10:10	08/14/13 18:59	1
Dibromofluoromethane	103		75 - 120	08/07/13 10:10	08/14/13 18:59	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	08/07/13 10:10	08/14/13 18:59	1
Toluene-d8 (Surr)	107		75 - 122	08/07/13 10:10	08/14/13 18:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B01-1

Lab Sample ID: 500-60686-19

Date Collected: 08/07/13 10:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 80.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B01-1

Lab Sample ID: 500-60686-19

Date Collected: 08/07/13 10:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 80.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0092	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Di-n-octyl phthalate	0.11	J	0.20	0.082	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Benzo[b]fluoranthene	<0.040		0.040	0.0079	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Benzo[k]fluoranthene	<0.040		0.040	0.0097	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Benzo[a]pyrene	<0.040		0.040	0.0074	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	08/16/13 07:11	08/20/13 22:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	35		30 - 110	08/16/13 07:11	08/20/13 22:53	1
Phenol-d5	47		31 - 110	08/16/13 07:11	08/20/13 22:53	1
Nitrobenzene-d5	39		30 - 115	08/16/13 07:11	08/20/13 22:53	1
2-Fluorobiphenyl	47		30 - 119	08/16/13 07:11	08/20/13 22:53	1
2,4,6-Tribromophenol	63		35 - 137	08/16/13 07:11	08/20/13 22:53	1
Terphenyl-d14	81		36 - 134	08/16/13 07:11	08/20/13 22:53	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00085	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
alpha-BHC	<0.0021		0.0021	0.00052	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
alpha-Chlordane	<0.0021		0.0021	0.0010	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
beta-BHC	<0.0021		0.0021	0.00063	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
4,4'-DDD	<0.0021		0.0021	0.00041	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
4,4'-DDE	<0.0021		0.0021	0.00034	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
delta-BHC	<0.0021		0.0021	0.00064	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
Dieldrin	<0.0021		0.0021	0.00028	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
Endosulfan I	<0.0021	*	0.0021	0.00089	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
Endosulfan II	<0.0021		0.0021	0.00033	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
Endosulfan sulfate	<0.0021		0.0021	0.00037	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
Endrin	<0.0021		0.0021	0.00028	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
Endrin aldehyde	<0.0021		0.0021	0.00034	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
Endrin ketone	<0.0021		0.0021	0.00046	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
gamma-BHC (Lindane)	<0.0021		0.0021	0.00044	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
gamma-Chlordane	<0.0021		0.0021	0.00054	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
Heptachlor	<0.0021		0.0021	0.00086	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
Heptachlor epoxide	<0.0021		0.0021	0.00073	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
Methoxychlor	<0.010		0.010	0.00040	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1
Toxaphene	<0.020		0.020	0.0086	mg/Kg	☼	08/14/13 21:12	08/17/13 01:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		56 - 128	08/14/13 21:12	08/17/13 01:55	1
Tetrachloro-m-xylene	59		45 - 112	08/14/13 21:12	08/17/13 01:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B01-1

Lab Sample ID: 500-60686-19

Date Collected: 08/07/13 10:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 80.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Arsenic	6.6		0.59	0.12	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Barium	65		0.59	0.063	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Beryllium	0.55		0.24	0.021	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Boron	3.4	B	2.9	0.12	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Cadmium	0.24		0.12	0.015	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Calcium	3500		12	3.2	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Chromium	16		0.59	0.068	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Cobalt	16		0.29	0.021	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Copper	20	B	0.59	0.052	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Iron	21000		12	4.8	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Lead	18		0.29	0.088	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Magnesium	4400	B	5.9	1.2	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Manganese	210		0.59	0.032	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Nickel	36		0.59	0.058	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Potassium	1200		29	1.8	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Selenium	0.49	J	0.59	0.21	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Sodium	59		59	7.9	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Thallium	<0.59		0.59	0.25	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Vanadium	17		0.29	0.044	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Zinc	75	B	1.2	0.24	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1
Aluminum	9700		12	1.1	mg/Kg	☼	08/08/13 15:00	08/13/13 22:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 09:30	09/10/13 17:27	1
Lead	0.0072	J	0.0075	0.0050	mg/L		09/10/13 09:30	09/10/13 17:27	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.90		0.50	0.010	mg/L		08/16/13 10:00	09/08/13 16:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 10:00	09/08/13 16:00	1
Boron	1.4		0.10	0.050	mg/L		08/16/13 10:00	09/08/13 16:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 10:00	09/08/13 16:00	1
Chromium	0.013	J	0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:00	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 16:00	1
Iron	9.1		0.20	0.20	mg/L		08/16/13 10:00	09/08/13 16:00	1
Lead	0.014		0.0075	0.0050	mg/L		08/16/13 10:00	09/08/13 16:00	1
Manganese	0.075		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:00	1
Nickel	0.012	J	0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:00	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 10:00	09/08/13 16:00	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 16:00	1
Zinc	0.76		0.10	0.020	mg/L		08/16/13 10:00	09/08/13 16:00	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 10:00	08/19/13 13:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 10:00	08/19/13 13:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B01-1

Lab Sample ID: 500-60686-19

Date Collected: 08/07/13 10:10

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/16/13 16:00	08/19/13 11:32	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.018	0.0087	mg/Kg	☼	08/14/13 13:00	08/15/13 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.89		0.200	0.200	SU			08/20/13 18:59	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B01-2

Lab Sample ID: 500-60686-20

Date Collected: 08/07/13 10:15

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 77.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0064		0.0042	0.0018	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
1,1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	08/07/13 10:15	08/14/13 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	08/07/13 10:15	08/14/13 19:23	1
Dibromofluoromethane	100		75 - 120	08/07/13 10:15	08/14/13 19:23	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	08/07/13 10:15	08/14/13 19:23	1
Toluene-d8 (Surr)	104		75 - 122	08/07/13 10:15	08/14/13 19:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B01-2

Lab Sample ID: 500-60686-20

Date Collected: 08/07/13 10:15

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 77.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.099	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Anthracene	<0.040		0.040	0.0096	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Pyrene	0.019	J	0.040	0.015	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B01-2

Lab Sample ID: 500-60686-20

Date Collected: 08/07/13 10:15

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 77.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.040	0.0092	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Di-n-octyl phthalate	0.14	J	0.20	0.082	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Benzo[b]fluoranthene	0.014	J	0.040	0.0079	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Benzo[k]fluoranthene	<0.040		0.040	0.0097	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Benzo[a]pyrene	0.0090	J	0.040	0.0074	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	08/16/13 07:11	08/20/13 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	28	X	30 - 110	08/16/13 07:11	08/20/13 23:13	1
Phenol-d5	31		31 - 110	08/16/13 07:11	08/20/13 23:13	1
Nitrobenzene-d5	32		30 - 115	08/16/13 07:11	08/20/13 23:13	1
2-Fluorobiphenyl	41		30 - 119	08/16/13 07:11	08/20/13 23:13	1
2,4,6-Tribromophenol	51		35 - 137	08/16/13 07:11	08/20/13 23:13	1
Terphenyl-d14	67		36 - 134	08/16/13 07:11	08/20/13 23:13	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00085	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
alpha-BHC	<0.0021		0.0021	0.00052	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
alpha-Chlordane	<0.0021		0.0021	0.0010	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
beta-BHC	<0.0021		0.0021	0.00064	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
4,4'-DDD	<0.0021		0.0021	0.00041	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
4,4'-DDE	<0.0021		0.0021	0.00034	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
delta-BHC	<0.0021		0.0021	0.00065	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
Dieldrin	<0.0021		0.0021	0.00028	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
Endosulfan I	<0.0021	*	0.0021	0.00090	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
Endosulfan II	<0.0021		0.0021	0.00033	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
Endosulfan sulfate	<0.0021		0.0021	0.00037	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
Endrin	<0.0021		0.0021	0.00028	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
Endrin aldehyde	<0.0021		0.0021	0.00035	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
Endrin ketone	<0.0021		0.0021	0.00046	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
gamma-BHC (Lindane)	<0.0021		0.0021	0.00045	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
gamma-Chlordane	<0.0021		0.0021	0.00054	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
Heptachlor	<0.0021		0.0021	0.00086	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
Heptachlor epoxide	<0.0021		0.0021	0.00073	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
Methoxychlor	<0.010		0.010	0.00040	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1
Toxaphene	<0.021		0.021	0.0087	mg/Kg	☼	08/14/13 21:12	08/17/13 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		56 - 128	08/14/13 21:12	08/17/13 02:14	1
Tetrachloro-m-xylene	58		45 - 112	08/14/13 21:12	08/17/13 02:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B01-2

Lab Sample ID: 500-60686-20

Date Collected: 08/07/13 10:15

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 77.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.52	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Arsenic	6.5		0.65	0.13	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Barium	67		0.65	0.069	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Beryllium	0.61		0.26	0.023	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Boron	3.6	B	3.2	0.14	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Cadmium	0.28		0.13	0.016	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Calcium	4700		13	3.5	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Chromium	16		0.65	0.075	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Cobalt	13		0.32	0.023	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Copper	22	B	0.65	0.057	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Iron	19000		13	5.3	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Lead	36		0.32	0.096	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Magnesium	4100	B	6.5	1.3	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Manganese	440		0.65	0.035	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Nickel	24		0.65	0.063	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Potassium	1300		32	1.9	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Selenium	0.68		0.65	0.23	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Sodium	79		65	8.6	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Thallium	<0.65		0.65	0.27	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Vanadium	20		0.32	0.048	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Zinc	73	B	1.3	0.26	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1
Aluminum	11000		13	1.2	mg/Kg	☼	08/08/13 15:00	08/13/13 22:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 09:30	09/10/13 17:32	1
Lead	0.0089		0.0075	0.0050	mg/L		09/10/13 09:30	09/10/13 17:32	1
Manganese	6.1		0.025	0.010	mg/L		09/10/13 09:30	09/10/13 17:32	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.74		0.50	0.010	mg/L		08/16/13 10:00	09/08/13 16:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 10:00	09/08/13 16:07	1
Boron	1.1		0.10	0.050	mg/L		08/16/13 10:00	09/08/13 16:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 10:00	09/08/13 16:07	1
Chromium	0.016	J	0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:07	1
Cobalt	0.0073	J	0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 16:07	1
Iron	15		0.20	0.20	mg/L		08/16/13 10:00	09/08/13 16:07	1
Lead	0.017		0.0075	0.0050	mg/L		08/16/13 10:00	09/08/13 16:07	1
Manganese	0.16		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:07	1
Nickel	0.017	J	0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:07	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 10:00	09/08/13 16:07	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 16:07	1
Zinc	0.62		0.10	0.020	mg/L		08/16/13 10:00	09/08/13 16:07	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 10:00	08/19/13 13:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 10:00	08/19/13 13:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B01-2

Lab Sample ID: 500-60686-20

Date Collected: 08/07/13 10:15

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/16/13 16:00	08/19/13 11:34	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.020	0.0096	mg/Kg	☼	08/14/13 13:00	08/15/13 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.05		0.200	0.200	SU			08/20/13 19:01	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B01-2 DUP

Lab Sample ID: 500-60686-21

Date Collected: 08/07/13 10:20

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 78.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0091		0.0049	0.0021	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	08/07/13 10:20	08/14/13 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	08/07/13 10:20	08/14/13 22:26	1
Dibromofluoromethane	97		75 - 120	08/07/13 10:20	08/14/13 22:26	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/07/13 10:20	08/14/13 22:26	1
Toluene-d8 (Surr)	100		75 - 122	08/07/13 10:20	08/14/13 22:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.067	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B01-2 DUP

Lab Sample ID: 500-60686-21

Date Collected: 08/07/13 10:20

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 78.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
2-Methylphenol	<0.21		0.21	0.056	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.047	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Naphthalene	<0.042		0.042	0.0081	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
4-Chloroaniline	<0.85		0.85	0.13	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
2,4,6-Trichlorophenol	<0.42		0.42	0.053	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Hexachlorocyclopentadiene	<0.85		0.85	0.20	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
2-Methylnaphthalene	<0.21		0.21	0.055	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
2-Nitroaniline	<0.21		0.21	0.076	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
2-Nitrophenol	<0.42		0.42	0.066	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
3-Nitroaniline	<0.42		0.42	0.081	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
2,4-Dinitrophenol	<0.85		0.85	0.22	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Acenaphthylene	<0.042		0.042	0.0097	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Dibenzofuran	<0.21		0.21	0.051	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
4-Nitrophenol	<0.85		0.85	0.23	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Fluorene	<0.042		0.042	0.0096	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
4-Nitroaniline	<0.42		0.42	0.086	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Hexachlorobenzene	<0.085		0.085	0.0083	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Pentachlorophenol	<0.85		0.85	0.21	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Phenanthrene	<0.042		0.042	0.018	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Anthracene	<0.042		0.042	0.0099	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Fluoranthene	<0.042		0.042	0.017	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Pyrene	0.015	J	0.042	0.015	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Butyl benzyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Benzo[a]anthracene	<0.042		0.042	0.0088	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B01-2 DUP

Lab Sample ID: 500-60686-21

Date Collected: 08/07/13 10:20

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 78.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.042	0.0095	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.056	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Di-n-octyl phthalate	0.21		0.21	0.085	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Benzo[b]fluoranthene	0.0091	J	0.042	0.0082	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Benzo[k]fluoranthene	<0.042		0.042	0.010	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Benzo[a]pyrene	<0.042		0.042	0.0077	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.014	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Dibenz(a,h)anthracene	<0.042		0.042	0.012	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1
3 & 4 Methylphenol	<0.21		0.21	0.080	mg/Kg	☼	08/14/13 17:34	08/20/13 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	30		30 - 110	08/14/13 17:34	08/20/13 23:32	1
Phenol-d5	42		31 - 110	08/14/13 17:34	08/20/13 23:32	1
Nitrobenzene-d5	23	X	30 - 115	08/14/13 17:34	08/20/13 23:32	1
2-Fluorobiphenyl	34		30 - 119	08/14/13 17:34	08/20/13 23:32	1
2,4,6-Tribromophenol	55		35 - 137	08/14/13 17:34	08/20/13 23:32	1
Terphenyl-d14	77		36 - 134	08/14/13 17:34	08/20/13 23:32	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00085	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
alpha-BHC	<0.0021		0.0021	0.00052	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
alpha-Chlordane	<0.0021		0.0021	0.0010	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
beta-BHC	<0.0021		0.0021	0.00064	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
4,4'-DDD	<0.0021		0.0021	0.00041	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
4,4'-DDE	<0.0021		0.0021	0.00034	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
delta-BHC	<0.0021		0.0021	0.00065	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
Dieldrin	<0.0021		0.0021	0.00028	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
Endosulfan I	<0.0021	*	0.0021	0.00090	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
Endosulfan II	<0.0021		0.0021	0.00033	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
Endosulfan sulfate	<0.0021		0.0021	0.00038	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
Endrin	<0.0021		0.0021	0.00028	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
Endrin aldehyde	<0.0021		0.0021	0.00035	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
Endrin ketone	<0.0021		0.0021	0.00047	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
gamma-BHC (Lindane)	<0.0021		0.0021	0.00045	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
gamma-Chlordane	<0.0021		0.0021	0.00054	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
Heptachlor	<0.0021		0.0021	0.00086	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
Heptachlor epoxide	<0.0021		0.0021	0.00073	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
Methoxychlor	<0.010		0.010	0.00040	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1
Toxaphene	<0.021		0.021	0.0087	mg/Kg	☼	08/14/13 21:12	08/16/13 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		56 - 128	08/14/13 21:12	08/16/13 23:23	1
Tetrachloro-m-xylene	50		45 - 112	08/14/13 21:12	08/16/13 23:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B01-2 DUP

Lab Sample ID: 500-60686-21

Date Collected: 08/07/13 10:20

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 78.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Arsenic	6.5		0.60	0.12	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Barium	43		0.60	0.064	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Beryllium	0.47		0.24	0.021	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Boron	6.5 B		3.0	0.13	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Cadmium	0.26		0.12	0.015	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Calcium	62000 B		120	32	mg/Kg	☼	08/08/13 15:00	08/16/13 16:36	10
Chromium	13		0.60	0.069	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Cobalt	11		0.30	0.021	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Copper	25 B		0.60	0.053	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Iron	17000		12	4.9	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Lead	20		0.30	0.089	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Magnesium	28000 B		6.0	1.2	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Manganese	510		0.60	0.032	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Nickel	27		0.60	0.058	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Potassium	1500		30	1.8	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Selenium	0.57 J		0.60	0.21	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Sodium	110		60	8.0	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Thallium	0.63		0.60	0.25	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Vanadium	15		0.30	0.044	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Zinc	67 B		1.2	0.24	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1
Aluminum	8100		12	1.1	mg/Kg	☼	08/08/13 15:00	08/13/13 22:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 09:30	09/10/13 17:45	1
Lead	0.011		0.0075	0.0050	mg/L		09/10/13 09:30	09/10/13 17:45	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68		0.50	0.010	mg/L		08/16/13 10:00	09/08/13 16:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 10:00	09/08/13 16:13	1
Boron	1.0		0.10	0.050	mg/L		08/16/13 10:00	09/08/13 16:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 10:00	09/08/13 16:13	1
Chromium	0.011 J		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:13	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 16:13	1
Iron	7.1		0.20	0.20	mg/L		08/16/13 10:00	09/08/13 16:13	1
Lead	0.011		0.0075	0.0050	mg/L		08/16/13 10:00	09/08/13 16:13	1
Manganese	0.14		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:13	1
Nickel	<0.025		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:13	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 10:00	09/08/13 16:13	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 16:13	1
Zinc	0.57		0.10	0.020	mg/L		08/16/13 10:00	09/08/13 16:13	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 10:00	08/19/13 13:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 10:00	08/19/13 13:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B01-2 DUP

Lab Sample ID: 500-60686-21

Date Collected: 08/07/13 10:20

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L	-	08/16/13 16:00	08/19/13 11:36	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.020	0.0095	mg/Kg	☆	08/14/13 13:00	08/15/13 10:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.70		0.200	0.200	SU	-		08/20/13 19:03	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B02-1

Lab Sample ID: 500-60686-22

Date Collected: 08/07/13 09:45

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 84.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.019		0.0043	0.0019	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
1,1-Dichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	08/07/13 09:45	08/14/13 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	08/07/13 09:45	08/14/13 22:49	1
Dibromofluoromethane	101		75 - 120	08/07/13 09:45	08/14/13 22:49	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/07/13 09:45	08/14/13 22:49	1
Toluene-d8 (Surr)	104		75 - 122	08/07/13 09:45	08/14/13 22:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B02-1

Lab Sample ID: 500-60686-22

Date Collected: 08/07/13 09:45

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
2-Chlorophenol	<0.18		0.18	0.053	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Naphthalene	0.032	J	0.037	0.0071	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
4-Nitroaniline	<0.37		0.37	0.075	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B02-1

Lab Sample ID: 500-60686-22

Date Collected: 08/07/13 09:45

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Di-n-octyl phthalate	<0.18		0.18	0.075	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Benzo[b]fluoranthene	<0.037		0.037	0.0071	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1
3 & 4 Methylphenol	<0.18		0.18	0.070	mg/Kg	☼	08/14/13 17:34	08/20/13 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	38		30 - 110	08/14/13 17:34	08/20/13 23:51	1
Phenol-d5	47		31 - 110	08/14/13 17:34	08/20/13 23:51	1
Nitrobenzene-d5	38		30 - 115	08/14/13 17:34	08/20/13 23:51	1
2-Fluorobiphenyl	44		30 - 119	08/14/13 17:34	08/20/13 23:51	1
2,4,6-Tribromophenol	52		35 - 137	08/14/13 17:34	08/20/13 23:51	1
Terphenyl-d14	70		36 - 134	08/14/13 17:34	08/20/13 23:51	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00080	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
alpha-Chlordane	<0.0020		0.0020	0.00097	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
4,4'-DDD	<0.0020		0.0020	0.00038	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
Dieldrin	<0.0020		0.0020	0.00026	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
Endosulfan I	<0.0020	*	0.0020	0.00084	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
Endosulfan II	<0.0020		0.0020	0.00031	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
Endrin aldehyde	<0.0020		0.0020	0.00032	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
gamma-Chlordane	<0.0020		0.0020	0.00050	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
Heptachlor	<0.0020		0.0020	0.00081	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
Heptachlor epoxide	<0.0020		0.0020	0.00068	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
Methoxychlor	<0.0096		0.0096	0.00037	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1
Toxaphene	<0.019		0.019	0.0081	mg/Kg	☼	08/14/13 21:12	08/16/13 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		56 - 128	08/14/13 21:12	08/16/13 23:42	1
Tetrachloro-m-xylene	51		45 - 112	08/14/13 21:12	08/16/13 23:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B02-1

Lab Sample ID: 500-60686-22

Date Collected: 08/07/13 09:45

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 84.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Arsenic	6.6		0.55	0.11	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Barium	24		0.55	0.059	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Beryllium	0.39		0.22	0.019	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Boron	6.6	B	2.8	0.12	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Cadmium	0.23		0.11	0.014	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Calcium	62000	B	110	30	mg/Kg	☼	08/08/13 15:00	08/16/13 16:42	10
Chromium	11		0.55	0.064	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Cobalt	9.7		0.28	0.020	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Copper	23	B	0.55	0.049	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Iron	16000		11	4.5	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Lead	15		0.28	0.082	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Magnesium	26000	B	5.5	1.1	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Manganese	370		0.55	0.030	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Nickel	26		0.55	0.054	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Potassium	1400		28	1.7	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Selenium	0.49	J	0.55	0.20	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Sodium	420		55	7.4	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Thallium	0.38	J	0.55	0.23	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Vanadium	13		0.28	0.041	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Zinc	59	B	1.1	0.22	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1
Aluminum	6500		11	1.0	mg/Kg	☼	08/08/13 15:00	08/13/13 22:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/13 09:30	09/10/13 17:51	1
Iron	<0.20		0.20	0.20	mg/L		09/10/13 09:30	09/10/13 17:51	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 09:30	09/10/13 17:51	1
Manganese	1.0		0.025	0.010	mg/L		09/10/13 09:30	09/10/13 17:51	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.91		0.50	0.010	mg/L		08/16/13 10:00	09/08/13 16:19	1
Beryllium	0.0040		0.0040	0.0040	mg/L		08/16/13 10:00	09/08/13 16:19	1
Boron	1.3		0.10	0.050	mg/L		08/16/13 10:00	09/08/13 16:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 10:00	09/08/13 16:19	1
Chromium	0.085		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:19	1
Cobalt	0.023	J	0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 16:19	1
Iron	96		0.20	0.20	mg/L		08/16/13 10:00	09/08/13 16:19	1
Lead	0.049		0.0075	0.0050	mg/L		08/16/13 10:00	09/08/13 16:19	1
Manganese	0.37		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:19	1
Nickel	0.082		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:19	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 10:00	09/08/13 16:19	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 16:19	1
Zinc	0.86		0.10	0.020	mg/L		08/16/13 10:00	09/08/13 16:19	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 10:00	08/19/13 13:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B02-1

Lab Sample ID: 500-60686-22

Date Collected: 08/07/13 09:45

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	08/16/13 10:00	08/19/13 13:35	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J	0.00020	0.000020	mg/L	-	08/16/13 16:00	08/19/13 11:42	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0089	mg/Kg	☆	08/14/13 13:00	08/15/13 10:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU	-		08/20/13 19:06	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B02-2

Lab Sample ID: 500-60686-23

Date Collected: 08/07/13 09:50

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0083		0.0039	0.0017	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Benzene	<0.0039		0.0039	0.00054	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Bromodichloromethane	<0.0039		0.0039	0.00068	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Bromoform	<0.0039		0.0039	0.00091	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Bromomethane	<0.0039		0.0039	0.0012	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Carbon disulfide	<0.0039		0.0039	0.00059	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Carbon tetrachloride	<0.0039		0.0039	0.00072	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Chlorobenzene	<0.0039		0.0039	0.00040	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Chloroform	<0.0039		0.0039	0.00045	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Chloromethane	<0.0039		0.0039	0.00083	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00056	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00052	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Dibromochloromethane	<0.0039		0.0039	0.00068	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
1,1-Dichloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
1,1-Dichloroethene	<0.0039		0.0039	0.00064	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
1,2-Dichloropropane	<0.0039		0.0039	0.00060	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.00052	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Ethylbenzene	<0.0039		0.0039	0.00079	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
2-Hexanone	<0.0039		0.0039	0.0011	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Methylene Chloride	<0.0039		0.0039	0.0011	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0010	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00065	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Styrene	<0.0039		0.0039	0.00052	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
1,1,1,2-Tetrachloroethane	<0.0039		0.0039	0.00079	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Tetrachloroethene	<0.0039		0.0039	0.00060	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Toluene	<0.0039		0.0039	0.00055	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00054	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.00071	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00059	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00054	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Trichloroethene	<0.0039		0.0039	0.00065	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Vinyl acetate	<0.0039		0.0039	0.00062	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Vinyl chloride	<0.0039		0.0039	0.00083	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1
Xylenes, Total	<0.0079		0.0079	0.00036	mg/Kg	☼	08/07/13 09:50	08/14/13 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	08/07/13 09:50	08/14/13 23:13	1
Dibromofluoromethane	98		75 - 120	08/07/13 09:50	08/14/13 23:13	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/07/13 09:50	08/14/13 23:13	1
Toluene-d8 (Surr)	103		75 - 122	08/07/13 09:50	08/14/13 23:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B02-2

Lab Sample ID: 500-60686-23

Date Collected: 08/07/13 09:50

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Naphthalene	0.055		0.037	0.0071	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Phenanthrene	0.046		0.037	0.016	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Pyrene	0.015 J		0.037	0.013	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B02-2

Lab Sample ID: 500-60686-23

Date Collected: 08/07/13 09:50

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.037	0.0084	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Di-n-octyl phthalate	0.30		0.19	0.075	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
Benzo[g,h,i]perylene	0.014	J	0.037	0.012	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/14/13 17:34	08/21/13 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	32		30 - 110	08/14/13 17:34	08/21/13 00:10	1
Phenol-d5	40		31 - 110	08/14/13 17:34	08/21/13 00:10	1
Nitrobenzene-d5	32		30 - 115	08/14/13 17:34	08/21/13 00:10	1
2-Fluorobiphenyl	43		30 - 119	08/14/13 17:34	08/21/13 00:10	1
2,4,6-Tribromophenol	63		35 - 137	08/14/13 17:34	08/21/13 00:10	1
Terphenyl-d14	87		36 - 134	08/14/13 17:34	08/21/13 00:10	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.019		0.019	0.0077	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
alpha-BHC	<0.019		0.019	0.0047	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
alpha-Chlordane	<0.019		0.019	0.0094	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
beta-BHC	<0.019		0.019	0.0058	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
4,4'-DDD	<0.019		0.019	0.0037	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
4,4'-DDE	<0.019		0.019	0.0031	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
4,4'-DDT	<0.019		0.019	0.0098	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
delta-BHC	<0.019		0.019	0.0058	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
Dieldrin	<0.019		0.019	0.0025	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
Endosulfan I	<0.019	*	0.019	0.0081	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
Endosulfan II	<0.019		0.019	0.0030	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
Endosulfan sulfate	<0.019		0.019	0.0034	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
Endrin	<0.019		0.019	0.0026	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
Endrin aldehyde	<0.019		0.019	0.0031	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
Endrin ketone	<0.019		0.019	0.0042	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
gamma-BHC (Lindane)	<0.019		0.019	0.0040	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
gamma-Chlordane	<0.019		0.019	0.0049	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
Heptachlor	<0.019		0.019	0.0078	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
Heptachlor epoxide	<0.019		0.019	0.0066	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
Methoxychlor	<0.092		0.092	0.0036	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10
Toxaphene	<0.19		0.19	0.078	mg/Kg	☼	08/14/13 21:12	08/17/13 03:30	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	45	X	56 - 128	08/14/13 21:12	08/17/13 03:30	10
Tetrachloro-m-xylene	55		45 - 112	08/14/13 21:12	08/17/13 03:30	10

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B02-2

Lab Sample ID: 500-60686-23

Date Collected: 08/07/13 09:50

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 87.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Arsenic	6.2		0.55	0.11	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Barium	29		0.55	0.059	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Beryllium	0.47		0.22	0.019	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Boron	7.8	B	2.7	0.12	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Cadmium	0.21		0.11	0.014	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Calcium	76000	B	110	30	mg/Kg	☼	08/08/13 15:00	08/16/13 16:48	10
Chromium	13		0.55	0.064	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Cobalt	13		0.27	0.020	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Copper	22	B	0.55	0.049	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Iron	15000		11	4.5	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Lead	14		0.27	0.082	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Magnesium	26000	B	5.5	1.1	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Manganese	320		0.55	0.030	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Nickel	30		0.55	0.054	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Potassium	1700		27	1.7	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Selenium	0.39	J	0.55	0.19	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Sodium	110		55	7.4	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Thallium	0.49	J	0.55	0.23	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Vanadium	15		0.27	0.041	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Zinc	63	B	1.1	0.22	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1
Aluminum	7400		11	1.0	mg/Kg	☼	08/08/13 15:00	08/13/13 22:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 09:30	09/10/13 17:56	1
Lead	0.0062	J	0.0075	0.0050	mg/L		09/10/13 09:30	09/10/13 17:56	1
Manganese	2.3		0.025	0.010	mg/L		09/10/13 09:30	09/10/13 17:56	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.76		0.50	0.010	mg/L		08/16/13 10:00	09/08/13 16:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 10:00	09/08/13 16:25	1
Boron	0.98		0.10	0.050	mg/L		08/16/13 10:00	09/08/13 16:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 10:00	09/08/13 16:25	1
Chromium	0.046		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:25	1
Cobalt	0.025		0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 16:25	1
Iron	26		0.20	0.20	mg/L		08/16/13 10:00	09/08/13 16:25	1
Lead	0.021		0.0075	0.0050	mg/L		08/16/13 10:00	09/08/13 16:25	1
Manganese	0.44		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:25	1
Nickel	0.054		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:25	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 10:00	09/08/13 16:25	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 16:25	1
Zinc	0.57		0.10	0.020	mg/L		08/16/13 10:00	09/08/13 16:25	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 10:00	08/19/13 13:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 10:00	08/19/13 13:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B02-2

Lab Sample ID: 500-60686-23

Date Collected: 08/07/13 09:50

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000028	J	0.00020	0.000020	mg/L	—	08/16/13 16:00	08/19/13 11:44	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0084	mg/Kg	☼	08/14/13 13:00	08/15/13 10:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.14		0.200	0.200	SU	—		08/20/13 19:08	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B03-1

Lab Sample ID: 500-60686-24

Date Collected: 08/07/13 09:05

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 85.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011		0.0052	0.0023	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Benzene	<0.0052		0.0052	0.00072	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Bromodichloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Carbon tetrachloride	<0.0052		0.0052	0.00095	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00069	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Dibromochloromethane	<0.0052		0.0052	0.00091	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
1,1-Dichloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
1,2-Dichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
1,1-Dichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
1,2-Dichloropropane	<0.0052		0.0052	0.00080	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00069	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Ethylbenzene	<0.0052		0.0052	0.0011	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00087	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Styrene	<0.0052		0.0052	0.00069	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Tetrachloroethene	<0.0052		0.0052	0.00080	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00072	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00094	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Vinyl acetate	<0.0052		0.0052	0.00082	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	08/07/13 09:05	08/14/13 23:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	08/07/13 09:05	08/14/13 23:37	1
Dibromofluoromethane	101		75 - 120	08/07/13 09:05	08/14/13 23:37	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/07/13 09:05	08/14/13 23:37	1
Toluene-d8 (Surr)	105		75 - 122	08/07/13 09:05	08/14/13 23:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B03-1

Lab Sample ID: 500-60686-24

Date Collected: 08/07/13 09:05

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Naphthalene	0.027	J	0.037	0.0071	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Phenanthrene	0.017	J	0.037	0.015	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Fluoranthene	0.020	J	0.037	0.015	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Pyrene	0.029	J	0.037	0.013	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Benzo[a]anthracene	0.017	J	0.037	0.0077	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B03-1

Lab Sample ID: 500-60686-24

Date Collected: 08/07/13 09:05

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.032	J	0.037	0.0083	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Benzo[b]fluoranthene	0.025	J	0.037	0.0072	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Benzo[k]fluoranthene	0.014	J	0.037	0.0088	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Benzo[a]pyrene	0.020	J	0.037	0.0067	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Indeno[1,2,3-cd]pyrene	0.015	J	0.037	0.012	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
Benzo[g,h,i]perylene	0.022	J	0.037	0.012	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/14/13 17:34	08/21/13 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	28	X	30 - 110	08/14/13 17:34	08/21/13 17:24	1
Phenol-d5	34		31 - 110	08/14/13 17:34	08/21/13 17:24	1
Nitrobenzene-d5	34		30 - 115	08/14/13 17:34	08/21/13 17:24	1
2-Fluorobiphenyl	46		30 - 119	08/14/13 17:34	08/21/13 17:24	1
2,4,6-Tribromophenol	38		35 - 137	08/14/13 17:34	08/21/13 17:24	1
Terphenyl-d14	76		36 - 134	08/14/13 17:34	08/21/13 17:24	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
alpha-Chlordane	<0.0019		0.0019	0.00095	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
4,4'-DDT	<0.0019		0.0019	0.00099	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
Endosulfan I	<0.0019	*	0.0019	0.00083	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
Heptachlor	<0.0019		0.0019	0.00079	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
Methoxychlor	<0.0094		0.0094	0.00037	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	08/14/13 21:12	08/17/13 03:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		56 - 128	08/14/13 21:12	08/17/13 03:48	1
Tetrachloro-m-xylene	60		45 - 112	08/14/13 21:12	08/17/13 03:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B03-1

Lab Sample ID: 500-60686-24

Date Collected: 08/07/13 09:05

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 85.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Arsenic	6.4		0.53	0.11	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Barium	48		0.53	0.057	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Beryllium	0.48		0.21	0.019	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Boron	4.1	B	2.7	0.11	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Cadmium	0.28		0.11	0.013	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Calcium	22000		11	2.9	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Chromium	12		0.53	0.062	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Cobalt	9.3		0.27	0.019	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Copper	22	B	0.53	0.047	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Iron	15000		11	4.4	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Lead	26		0.27	0.079	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Magnesium	12000	B	5.3	1.1	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Manganese	340		0.53	0.029	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Nickel	23		0.53	0.052	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Potassium	1100		27	1.6	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Selenium	0.38	J	0.53	0.19	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Sodium	230		53	7.1	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Thallium	0.31	J	0.53	0.22	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Vanadium	15		0.27	0.039	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Zinc	78	B	1.1	0.21	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1
Aluminum	8000		11	0.98	mg/Kg	☼	08/08/13 15:00	08/13/13 22:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 09:30	09/10/13 18:01	1
Lead	0.0056	J	0.0075	0.0050	mg/L		09/10/13 09:30	09/10/13 18:01	1
Manganese	0.033		0.025	0.010	mg/L		09/10/13 09:30	09/10/13 18:01	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		08/16/13 10:00	09/08/13 16:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 10:00	09/08/13 16:31	1
Boron	1.9		0.10	0.050	mg/L		08/16/13 10:00	09/08/13 16:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 10:00	09/08/13 16:31	1
Chromium	0.052		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:31	1
Cobalt	0.013	J	0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 16:31	1
Iron	50		0.20	0.20	mg/L		08/16/13 10:00	09/08/13 16:31	1
Lead	0.044		0.0075	0.0050	mg/L		08/16/13 10:00	09/08/13 16:31	1
Manganese	0.25		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:31	1
Nickel	0.046		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:31	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 10:00	09/08/13 16:31	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 16:31	1
Zinc	1.1		0.10	0.020	mg/L		08/16/13 10:00	09/08/13 16:31	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 10:00	08/19/13 13:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 10:00	08/19/13 13:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B03-1

Lab Sample ID: 500-60686-24

Date Collected: 08/07/13 09:05

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000067	J	0.00020	0.000020	mg/L	—	08/16/13 16:00	08/19/13 11:46	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.019	0.0090	mg/Kg	☼	08/14/13 13:00	08/15/13 10:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.20		0.200	0.200	SU	—		08/20/13 19:10	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B03-2

Lab Sample ID: 500-60686-25

Date Collected: 08/07/13 09:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0066		0.0045	0.0019	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	08/07/13 09:10	08/15/13 00:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	08/07/13 09:10	08/15/13 00:00	1
Dibromofluoromethane	96		75 - 120	08/07/13 09:10	08/15/13 00:00	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/07/13 09:10	08/15/13 00:00	1
Toluene-d8 (Surr)	102		75 - 122	08/07/13 09:10	08/15/13 00:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B03-2

Lab Sample ID: 500-60686-25

Date Collected: 08/07/13 09:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Hexachlorobenzene	<0.078		0.078	0.0077	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Pyrene	0.023	J	0.039	0.014	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Benzo[a]anthracene	<0.039		0.039	0.0081	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B03-2

Lab Sample ID: 500-60686-25

Date Collected: 08/07/13 09:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.039	0.0088	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Di-n-octyl phthalate	0.22		0.20	0.079	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Benzo[b]fluoranthene	<0.039		0.039	0.0075	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
Benzo[g,h,i]perylene	0.013	J	0.039	0.013	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/14/13 17:34	08/21/13 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	36		30 - 110	08/14/13 17:34	08/21/13 17:42	1
Phenol-d5	40		31 - 110	08/14/13 17:34	08/21/13 17:42	1
Nitrobenzene-d5	35		30 - 115	08/14/13 17:34	08/21/13 17:42	1
2-Fluorobiphenyl	47		30 - 119	08/14/13 17:34	08/21/13 17:42	1
2,4,6-Tribromophenol	25	X	35 - 137	08/14/13 17:34	08/21/13 17:42	1
Terphenyl-d14	70		36 - 134	08/14/13 17:34	08/21/13 17:42	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
alpha-Chlordane	<0.0019		0.0019	0.00095	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
4,4'-DDT	<0.0019		0.0019	0.00099	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
Endosulfan I	<0.0019	*	0.0019	0.00082	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
Heptachlor	<0.0019		0.0019	0.00079	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	08/14/13 21:12	08/17/13 04:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		56 - 128	08/14/13 21:12	08/17/13 04:07	1
Tetrachloro-m-xylene	54		45 - 112	08/14/13 21:12	08/17/13 04:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B03-2

Lab Sample ID: 500-60686-25

Date Collected: 08/07/13 09:10

Matrix: Solid

Date Received: 08/07/13 16:10

Percent Solids: 84.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.1	0.44	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Arsenic	10		0.55	0.11	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Barium	72		0.55	0.059	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Beryllium	0.41		0.22	0.019	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Boron	7.1	B	2.8	0.12	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Cadmium	0.23		0.11	0.014	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Calcium	66000	B	110	30	mg/Kg	☼	08/08/13 15:00	08/16/13 16:54	10
Chromium	12		0.55	0.064	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Cobalt	14		0.28	0.020	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Copper	22	B	0.55	0.049	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Iron	17000		11	4.5	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Lead	15		0.28	0.082	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Magnesium	25000	B	5.5	1.1	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Manganese	530		0.55	0.030	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Nickel	27		0.55	0.054	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Potassium	1500		28	1.7	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Selenium	0.74		0.55	0.20	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Sodium	110		55	7.4	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Thallium	0.43	J	0.55	0.23	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Vanadium	14		0.28	0.041	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Zinc	62	B	1.1	0.22	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1
Aluminum	6900		11	1.0	mg/Kg	☼	08/08/13 15:00	08/13/13 22:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.97		0.10	0.050	mg/L		09/10/13 09:30	09/10/13 18:06	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		08/16/13 10:00	09/08/13 16:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 10:00	09/08/13 16:38	1
Boron	2.3		0.10	0.050	mg/L		08/16/13 10:00	09/08/13 16:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/16/13 10:00	09/08/13 16:38	1
Chromium	<0.025		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:38	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 16:38	1
Iron	2.3		0.20	0.20	mg/L		08/16/13 10:00	09/08/13 16:38	1
Lead	0.0062	J	0.0075	0.0050	mg/L		08/16/13 10:00	09/08/13 16:38	1
Manganese	0.042		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:38	1
Nickel	<0.025		0.025	0.010	mg/L		08/16/13 10:00	09/08/13 16:38	1
Selenium	<0.050		0.050	0.010	mg/L		08/16/13 10:00	09/08/13 16:38	1
Silver	<0.025		0.025	0.0050	mg/L		08/16/13 10:00	09/08/13 16:38	1
Zinc	1.2		0.10	0.020	mg/L		08/16/13 10:00	09/08/13 16:38	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/16/13 10:00	08/19/13 13:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 10:00	08/19/13 13:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Client Sample ID: 846D-49-B03-2

Lab Sample ID: 500-60686-25

Date Collected: 08/07/13 09:10

Matrix: Solid

Date Received: 08/07/13 16:10

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/16/13 16:00	08/19/13 11:48	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0086	mg/Kg	☼	08/14/13 13:00	08/15/13 10:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.22		0.200	0.200	SU			08/20/13 19:12	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60686-5

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact
 Andrews Engineering, Inc.
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com
 500-60686 C0C

Laboratory
 Lab: Test America - Chicago
 Address: 2417 Bond Street
 University Park, IL 60484
 Phone: 708-534-5200
 Contact: Dick Wright
 email: richard.wright@testamericainc.com

Project Name: US6 / 2L7 Will + Cook Co.
 Project No.: IDOT 2013-023
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Sampler: AEZ

COC No.: 1 of 2
 Lab Job No.: 500-60686
 Sample Temp.: 42.3, 8.3, 5
 Matrix Key:

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

ANALYSES

W: Water	S: Soil	SL: Sludge	S: Sediment	L: Leachate	DW: Drinking Water	OL: Oil	O: Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments												
1	846D-36-804-1	8/7/13	12:30	S	X	X			X		X	X	X	X		0'-5'												
2	846D-36-804-2		12:35													5'-10'												
3	846D-36-805-1		12:20													0'-5'												
4	846D-36-805-2		12:25													5'-10'												
5	846D-36-806-1		12:10													0'-5'												
<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">Relinquished by: </td> <td style="width: 33%;">Date/Time: 8/7/13 3:25</td> <td style="width: 33%;">Received by: </td> <td style="width: 33%;">Date/Time: 8-7-13/1327</td> </tr> <tr> <td>Relinquished by: </td> <td>Date/Time: 8-23-10/10</td> <td>Received by: </td> <td>Date/Time: 8/23/10/10</td> </tr> <tr> <td>Relinquished by: </td> <td>Date/Time:</td> <td>Received by:</td> <td>Date/Time:</td> </tr> </table>																	Relinquished by:	Date/Time: 8/7/13 3:25	Received by:	Date/Time: 8-7-13/1327	Relinquished by:	Date/Time: 8-23-10/10	Received by:	Date/Time: 8/23/10/10	Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time: 8/7/13 3:25	Received by:	Date/Time: 8-7-13/1327																									
Relinquished by:	Date/Time: 8-23-10/10	Received by:	Date/Time: 8/23/10/10																									
Relinquished by:	Date/Time:	Received by:	Date/Time:																									



CHAIN OF CUSTODY RECORD

Client Contact	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory	Test America - Chicago 2417 Bond Street University Park, IL 60484 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>US6/IL7 Willow Creek Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: _____ Sampler: <u>AEI</u>		COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60684</u> Sample Temp: <u>42.38, 3.5</u> Matrix Key: _____	

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization	
17	846D-47-B01	8/7/13	2:10	S	X	X					X	X	X	X	X		D-5
18	846D-47-B02	8/7/13	2:15	S	X	X					X	X	X	X	X		D-5
	846D-47-B03			S	X	X					X	X	X	X	X		
	846D-47-B04			S	X	X					X	X	X	X	X		
Relinquished by:					Date/Time											Date/Time	
Relinquished by:					8/7/13 2:25											8/7/13 1:52	
Relinquished by:					8/27/13 16:10											8/7/13 16:10	



CHAIN OF CUSTODY RECORD

Client Contact	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: US6 / IL7 Wier + Cook Co. Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		Project Name: US6 / IL7 Wier + Cook Co. Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other	

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments			
					VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization		
19	846D-49-B01-1	8/7	10:10	S	X	X				X	X	X	X	X				0-8
20	846D-49-B01-2		10:15		X	X												8-16
21	846D-49-B01-2 DUP		10:20		X	X												8-16
22	846D-49-B02-1		9:45		X	X												0-8
23	846D-49-B02-2		9:50		X	X												8-16
24	846D-49-B03-1		9:05		X	X												0-8
25	846D-49-B03-2		9:10	S	X	X				X	X	X	X	X				8-16
26	846D-49-G01	8/7	11:00	W	X	X				X	X	X	X	X				GWE 5.9'

Requisitioned by:	Date/Time: 8/7/13 3:25
Requisitioned by:	Date/Time: 8-7-13 16/0
Requisitioned by:	Date/Time:



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Name: US6 / IL7 Wire & Cook Co. Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 1.5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: AEI		COC No.: 1 of 1 Lab Job No.: 500-60686 Sample Temp: 42.3, 3.5 Matrix Key: 3.5										
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.				ANALYSES												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
19	846D-49-B01-1	8/7	10:10	S	X	X			X		X	X	X	X		0-8
20	846D-49-B01-2		10:15													8-14
21	846D-49-B01-2 DUP		10:20													8-14
22	846D-49-B02-1		9:45													0-8
23	846D-49-B02-2		9:50													8-14
24	846D-49-B03-1		9:05													0-8
25	846D-49-B03-2		9:10	S	X	X			X		X	X	X	X		8-14
26	846D-49-G01	8/7	11:00	W	X	X			X		X	X	X			GWC 5.9'
27	Trip Blank															Added by JA
Relinquished by:				Date/Time: 8/7/13 3:25				Received by:				Date/Time: 8/7/13/1525				
Relinquished by:				Date/Time: 8/7/13/1610				Received by:				Date/Time: 8/7/13/1610				
Relinquished by:				Date/Time:				Received by:				Date/Time:				



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14059 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59920 Longitude: -87.96233
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59920 Longitude: -87.96233

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-50-B02 THROUGH -B05 WERE SAMPLED ADJACENT TO SITE NO. 846D-50. SEE FIGURES 10 & 11, AND TABLE 3an OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60580-1

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

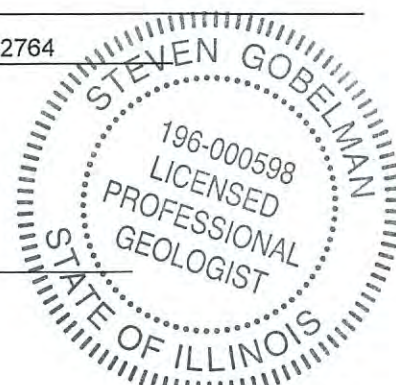
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/5/14

Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-50
Farmstead

Sample ID	846D-50-B02	846D-50-B03	846D-50-B04	846D-50-B05								
Sample Depth (ft)	0-8	0-8	0-8	0-8								
Sample Date	8/6/2013	8/6/2013	8/6/2013	8/6/2013								
PID	0	0	0	0								
Sample pH	8.56	8.14	7.96	8.44								
Matrix	Soil	Soil	Soil	Soil								
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	ND	J 0.016	ND	0.91	1.2	0.09	0.09	0.09	0.98	1.3	2.1	NA
Benzo(b)fluoranthene	ND	J 0.019	ND	0.93	1,2,3	0.9	0.9	0.9	0.9	1.5	2.1	NA
Dibenzo(a,h)anthracene	ND	ND	ND	0.33	1,2,3,4	0.09	0.09	0.09	0.15	0.2	0.42	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-60580-1
Client Project/Site: IDOT - Gougar - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/11/2013 2:55:58 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B02

Lab Sample ID: 500-60580-2

Date Collected: 08/06/13 11:00

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012		0.0045	0.0019	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	08/06/13 11:00	08/12/13 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	08/06/13 11:00	08/12/13 19:20	1
Dibromofluoromethane	109		75 - 120	08/06/13 11:00	08/12/13 19:20	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	08/06/13 11:00	08/12/13 19:20	1
Toluene-d8 (Surr)	94		75 - 122	08/06/13 11:00	08/12/13 19:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.97		0.97	0.31	mg/Kg	☼	08/15/13 07:26	08/19/13 20:00	5
Bis(2-chloroethyl)ether	<0.97		0.97	0.29	mg/Kg	☼	08/15/13 07:26	08/19/13 20:00	5
1,3-Dichlorobenzene	<0.97		0.97	0.20	mg/Kg	☼	08/15/13 07:26	08/19/13 20:00	5
1,4-Dichlorobenzene	<0.97		0.97	0.20	mg/Kg	☼	08/15/13 07:26	08/19/13 20:00	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B02

Lab Sample ID: 500-60580-2

Date Collected: 08/06/13 11:00

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.97		0.97	0.21	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
2-Methylphenol	<0.97		0.97	0.26	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
2,2'-oxybis[1-chloropropane]	<0.97		0.97	0.21	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
N-Nitrosodi-n-propylamine	<0.97		0.97	0.25	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Hexachloroethane	<0.97		0.97	0.21	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
2-Chlorophenol	<0.97		0.97	0.28	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Nitrobenzene	<0.19		0.19	0.060	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Bis(2-chloroethoxy)methane	<0.97		0.97	0.21	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
1,2,4-Trichlorobenzene	<0.97		0.97	0.22	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Isophorone	<0.97		0.97	0.22	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
2,4-Dimethylphenol	<1.9		1.9	0.61	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Hexachlorobutadiene	<0.97		0.97	0.25	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Naphthalene	<0.19		0.19	0.037	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
2,4-Dichlorophenol	<1.9		1.9	0.59	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
4-Chloroaniline	<3.9		3.9	0.59	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
2,4,6-Trichlorophenol	<1.9		1.9	0.24	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
2,4,5-Trichlorophenol	<1.9		1.9	0.55	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Hexachlorocyclopentadiene	<3.9		3.9	0.90	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
2-Methylnaphthalene	<0.97		0.97	0.25	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
2-Nitroaniline	<0.97		0.97	0.35	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
2-Chloronaphthalene	<0.97		0.97	0.22	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
4-Chloro-3-methylphenol	<1.9		1.9	0.93	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
2,6-Dinitrotoluene	<0.97		0.97	0.23	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
2-Nitrophenol	<1.9		1.9	0.30	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
3-Nitroaniline	<1.9		1.9	0.37	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Dimethyl phthalate	<0.97		0.97	0.24	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
2,4-Dinitrophenol	<3.9		3.9	0.99	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Acenaphthylene	<0.19		0.19	0.045	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
2,4-Dinitrotoluene	<0.97		0.97	0.30	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Acenaphthene	<0.19		0.19	0.058	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Dibenzofuran	<0.97		0.97	0.23	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
4-Nitrophenol	<3.9		3.9	1.0	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Fluorene	<0.19		0.19	0.044	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
4-Nitroaniline	<1.9		1.9	0.40	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
4-Bromophenyl phenyl ether	<0.97		0.97	0.22	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Hexachlorobenzene	<0.39		0.39	0.038	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Diethyl phthalate	<0.97		0.97	0.32	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
4-Chlorophenyl phenyl ether	<0.97		0.97	0.31	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Pentachlorophenol	<3.9		3.9	0.99	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
N-Nitrosodiphenylamine	<0.97		0.97	0.26	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
4,6-Dinitro-2-methylphenol	<1.9		1.9	0.47	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Phenanthrene	<0.19		0.19	0.081	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Anthracene	<0.19		0.19	0.046	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Carbazole	<0.97		0.97	0.27	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Di-n-butyl phthalate	<0.97		0.97	0.24	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Fluoranthene	<0.19		0.19	0.079	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Pyrene	<0.19		0.19	0.070	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Butyl benzyl phthalate	<0.97		0.97	0.24	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5
Benzo[a]anthracene	<0.19		0.19	0.041	mg/Kg	*	08/15/13 07:26	08/19/13 20:00	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B02

Lab Sample ID: 500-60580-2

Date Collected: 08/06/13 11:00

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.19		0.19	0.044	mg/Kg	☼	08/15/13 07:26	08/19/13 20:00	5
3,3'-Dichlorobenzidine	<0.97		0.97	0.16	mg/Kg	☼	08/15/13 07:26	08/19/13 20:00	5
Bis(2-ethylhexyl) phthalate	<0.97		0.97	0.26	mg/Kg	☼	08/15/13 07:26	08/19/13 20:00	5
Di-n-octyl phthalate	<0.97		0.97	0.39	mg/Kg	☼	08/15/13 07:26	08/19/13 20:00	5
Benzo[b]fluoranthene	<0.19		0.19	0.038	mg/Kg	☼	08/15/13 07:26	08/19/13 20:00	5
Benzo[k]fluoranthene	<0.19		0.19	0.046	mg/Kg	☼	08/15/13 07:26	08/19/13 20:00	5
Benzo[a]pyrene	<0.19		0.19	0.035	mg/Kg	☼	08/15/13 07:26	08/19/13 20:00	5
Indeno[1,2,3-cd]pyrene	<0.19		0.19	0.065	mg/Kg	☼	08/15/13 07:26	08/19/13 20:00	5
Dibenz(a,h)anthracene	<0.19		0.19	0.054	mg/Kg	☼	08/15/13 07:26	08/19/13 20:00	5
Benzo[g,h,i]perylene	<0.19		0.19	0.065	mg/Kg	☼	08/15/13 07:26	08/19/13 20:00	5
3 & 4 Methylphenol	<0.97		0.97	0.37	mg/Kg	☼	08/15/13 07:26	08/19/13 20:00	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		30 - 110	08/15/13 07:26	08/19/13 20:00	5
Phenol-d5	76		31 - 110	08/15/13 07:26	08/19/13 20:00	5
Nitrobenzene-d5	60		30 - 115	08/15/13 07:26	08/19/13 20:00	5
2-Fluorobiphenyl	71		30 - 119	08/15/13 07:26	08/19/13 20:00	5
2,4,6-Tribromophenol	91		35 - 137	08/15/13 07:26	08/19/13 20:00	5
Terphenyl-d14	79		36 - 134	08/15/13 07:26	08/19/13 20:00	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0096		0.0096	0.0039	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
alpha-BHC	<0.0096		0.0096	0.0024	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
alpha-Chlordane	<0.0096		0.0096	0.0048	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
beta-BHC	<0.0096		0.0096	0.0029	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
4,4'-DDD	<0.0096		0.0096	0.0019	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
4,4'-DDE	<0.0096		0.0096	0.0016	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
4,4'-DDT	<0.0096		0.0096	0.0050	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
delta-BHC	<0.0096		0.0096	0.0030	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
Dieldrin	<0.0096		0.0096	0.0013	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
Endosulfan I	<0.0096	*	0.0096	0.0041	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
Endosulfan II	<0.0096		0.0096	0.0015	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
Endosulfan sulfate	<0.0096		0.0096	0.0017	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
Endrin	<0.0096		0.0096	0.0013	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
Endrin aldehyde	<0.0096		0.0096	0.0016	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
Endrin ketone	<0.0096		0.0096	0.0021	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
gamma-BHC (Lindane)	<0.0096		0.0096	0.0020	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
gamma-Chlordane	<0.0096		0.0096	0.0025	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
Heptachlor	<0.0096		0.0096	0.0040	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
Heptachlor epoxide	<0.0096		0.0096	0.0034	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
Methoxychlor	<0.047		0.047	0.0018	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5
Toxaphene	<0.094		0.094	0.040	mg/Kg	☼	08/14/13 21:12	08/16/13 20:51	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	56		56 - 128	08/14/13 21:12	08/16/13 20:51	5
Tetrachloro-m-xylene	54		45 - 112	08/14/13 21:12	08/16/13 20:51	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B02

Lab Sample ID: 500-60580-2

Date Collected: 08/06/13 11:00

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 84.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Arsenic	6.0		0.55	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Barium	79		0.55	0.059	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Beryllium	0.66		0.22	0.019	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Boron	6.7		2.7	0.12	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Cadmium	0.61		0.11	0.014	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Calcium	27000	B	11	3.0	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Chromium	16		0.55	0.064	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Cobalt	7.4	B	0.27	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Copper	18		0.55	0.049	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Iron	17000	B	11	4.5	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Lead	61		0.27	0.082	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Magnesium	18000	B	5.5	1.1	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Manganese	250	B	0.55	0.030	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Nickel	16		0.55	0.054	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Potassium	1600	B	27	1.7	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Selenium	0.34	J	0.55	0.20	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Sodium	2500		55	7.4	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Vanadium	23	B	0.27	0.041	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Zinc	55		1.1	0.22	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1
Aluminum	12000	B	11	1.0	mg/Kg	☼	08/07/13 15:00	09/08/13 01:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/13 08:30	09/11/13 01:00	1
Chromium	<0.025		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 01:00	1
Iron	1.6		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 01:00	1
Lead	0.013		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 01:00	1
Manganese	5.7		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 01:00	1
Nickel	0.014	J	0.025	0.010	mg/L		09/10/13 08:30	09/11/13 01:00	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.5	B	0.50	0.010	mg/L		08/14/13 12:00	09/04/13 23:17	1
Beryllium	0.0087		0.0040	0.0040	mg/L		08/14/13 12:00	09/04/13 23:17	1
Boron	0.74		0.10	0.050	mg/L		08/14/13 12:00	09/04/13 23:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	09/04/13 23:17	1
Chromium	0.20		0.025	0.010	mg/L		08/14/13 12:00	09/04/13 23:17	1
Cobalt	0.081		0.025	0.0050	mg/L		08/14/13 12:00	09/04/13 23:17	1
Iron	210		0.20	0.20	mg/L		08/14/13 12:00	09/04/13 23:17	1
Lead	0.30		0.0075	0.0050	mg/L		08/14/13 12:00	09/04/13 23:17	1
Manganese	2.6		0.025	0.010	mg/L		08/14/13 12:00	09/04/13 23:17	1
Nickel	0.21		0.025	0.010	mg/L		08/14/13 12:00	09/04/13 23:17	1
Selenium	0.011	J	0.050	0.010	mg/L		08/14/13 12:00	09/04/13 23:17	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/04/13 23:17	1
Zinc	0.90		0.10	0.020	mg/L		08/14/13 12:00	09/04/13 23:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B02

Lab Sample ID: 500-60580-2

Date Collected: 08/06/13 11:00

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/13 08:30	09/11/13 11:25	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 18:49	1
Thallium	0.0031		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 18:49	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00028	B	0.00020	0.000020	mg/L		08/14/13 15:00	08/15/13 10:21	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	B	0.019	0.0089	mg/Kg	☼	08/12/13 15:00	08/13/13 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU			08/17/13 14:05	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B03

Lab Sample ID: 500-60580-3

Date Collected: 08/06/13 10:55

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	08/06/13 10:55	08/12/13 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	08/06/13 10:55	08/12/13 19:43	1
Dibromofluoromethane	108		75 - 120	08/06/13 10:55	08/12/13 19:43	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	08/06/13 10:55	08/12/13 19:43	1
Toluene-d8 (Surr)	95		75 - 122	08/06/13 10:55	08/12/13 19:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B03

Lab Sample ID: 500-60580-3

Date Collected: 08/06/13 10:55

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
2-Chlorophenol	<0.18		0.18	0.053	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
2,4,5-Trichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
2-Nitrophenol	<0.36		0.36	0.058	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Benzo[a]anthracene	0.0085	J	0.036	0.0077	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B03

Lab Sample ID: 500-60580-3

Date Collected: 08/06/13 10:55

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.036	0.0083	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Di-n-octyl phthalate	0.078	J	0.18	0.074	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Benzo[b]fluoranthene	0.019	J	0.036	0.0071	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Benzo[k]fluoranthene	<0.036		0.036	0.0088	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Benzo[a]pyrene	0.016	J	0.036	0.0067	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
Benzo[g,h,i]perylene	0.015	J	0.036	0.012	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1
3 & 4 Methylphenol	<0.18		0.18	0.070	mg/Kg	☼	08/15/13 07:26	08/19/13 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		30 - 110	08/15/13 07:26	08/19/13 20:23	1
Phenol-d5	46		31 - 110	08/15/13 07:26	08/19/13 20:23	1
Nitrobenzene-d5	38		30 - 115	08/15/13 07:26	08/19/13 20:23	1
2-Fluorobiphenyl	42		30 - 119	08/15/13 07:26	08/19/13 20:23	1
2,4,6-Tribromophenol	56		35 - 137	08/15/13 07:26	08/19/13 20:23	1
Terphenyl-d14	50		36 - 134	08/15/13 07:26	08/19/13 20:23	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0093		0.0093	0.0038	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
alpha-BHC	<0.0093		0.0093	0.0023	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
alpha-Chlordane	<0.0093		0.0093	0.0046	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
beta-BHC	<0.0093		0.0093	0.0028	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
4,4'-DDD	<0.0093		0.0093	0.0018	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
4,4'-DDE	<0.0093		0.0093	0.0015	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
4,4'-DDT	<0.0093		0.0093	0.0048	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
delta-BHC	<0.0093		0.0093	0.0029	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
Dieldrin	<0.0093		0.0093	0.0013	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
Endosulfan I	<0.0093	*	0.0093	0.0040	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
Endosulfan II	<0.0093		0.0093	0.0015	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
Endosulfan sulfate	<0.0093		0.0093	0.0017	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
Endrin	<0.0093		0.0093	0.0013	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
Endrin aldehyde	<0.0093		0.0093	0.0015	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
Endrin ketone	<0.0093		0.0093	0.0021	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
gamma-BHC (Lindane)	<0.0093		0.0093	0.0020	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
gamma-Chlordane	<0.0093		0.0093	0.0024	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
Heptachlor	<0.0093		0.0093	0.0038	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
Heptachlor epoxide	<0.0093		0.0093	0.0032	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
Methoxychlor	<0.045		0.045	0.0018	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5
Toxaphene	<0.091		0.091	0.039	mg/Kg	☼	08/14/13 21:12	08/16/13 21:10	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		56 - 128	08/14/13 21:12	08/16/13 21:10	5
Tetrachloro-m-xylene	51		45 - 112	08/14/13 21:12	08/16/13 21:10	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B03

Lab Sample ID: 500-60580-3

Date Collected: 08/06/13 10:55

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Arsenic	9.9		0.54	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Barium	43		0.54	0.058	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Beryllium	0.65		0.22	0.019	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Boron	11		2.7	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Cadmium	0.47		0.11	0.014	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Calcium	48000	B	11	3.0	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Chromium	16		0.54	0.063	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Cobalt	12	B	0.27	0.019	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Copper	21		0.54	0.048	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Iron	19000	B	11	4.5	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Lead	13		0.27	0.081	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Magnesium	24000	B	5.4	1.1	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Manganese	460	B	0.54	0.030	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Nickel	25		0.54	0.053	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Potassium	2400	B	27	1.6	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Sodium	970		54	7.3	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Vanadium	19	B	0.27	0.040	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Zinc	44		1.1	0.22	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1
Aluminum	9700	B	11	1.0	mg/Kg	☼	08/07/13 15:00	09/08/13 01:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 01:06	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 01:06	1
Manganese	0.37		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 01:06	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58	B	0.50	0.010	mg/L		08/14/13 12:00	09/04/13 23:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	09/04/13 23:23	1
Boron	0.62		0.10	0.050	mg/L		08/14/13 12:00	09/04/13 23:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	09/04/13 23:23	1
Chromium	0.032		0.025	0.010	mg/L		08/14/13 12:00	09/04/13 23:23	1
Cobalt	0.011	J	0.025	0.0050	mg/L		08/14/13 12:00	09/04/13 23:23	1
Iron	31		0.20	0.20	mg/L		08/14/13 12:00	09/04/13 23:23	1
Lead	0.019		0.0075	0.0050	mg/L		08/14/13 12:00	09/04/13 23:23	1
Manganese	0.23		0.025	0.010	mg/L		08/14/13 12:00	09/04/13 23:23	1
Nickel	0.033		0.025	0.010	mg/L		08/14/13 12:00	09/04/13 23:23	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	09/04/13 23:23	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/04/13 23:23	1
Zinc	0.37		0.10	0.020	mg/L		08/14/13 12:00	09/04/13 23:23	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 18:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 18:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B03

Lab Sample ID: 500-60580-3

Date Collected: 08/06/13 10:55

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000037	J B	0.00020	0.000020	mg/L	—	08/14/13 15:00	08/15/13 10:23	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030	B	0.019	0.0089	mg/Kg	☼	08/12/13 15:00	08/13/13 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.14		0.200	0.200	SU	—		08/17/13 14:08	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B04

Lab Sample ID: 500-60580-4

Date Collected: 08/06/13 10:50

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 79.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0023	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Bromodichloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
2-Butanone (MEK)	<0.0054		0.0054	0.0020	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Carbon disulfide	<0.0054		0.0054	0.00081	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Carbon tetrachloride	<0.0054		0.0054	0.00099	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00077	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Dibromochloromethane	<0.0054		0.0054	0.00094	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
1,1-Dichloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
1,1,1-Dichloroethane	<0.0054		0.0054	0.00088	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
1,2-Dichloropropane	<0.0054		0.0054	0.00082	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00090	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
1,1,1,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Tetrachloroethene	<0.0054		0.0054	0.00083	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Toluene	<0.0054		0.0054	0.00076	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00075	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00097	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00074	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Trichloroethene	<0.0054		0.0054	0.00089	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Vinyl acetate	<0.0054		0.0054	0.00085	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	08/06/13 10:50	08/12/13 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	08/06/13 10:50	08/12/13 20:05	1
Dibromofluoromethane	107		75 - 120	08/06/13 10:50	08/12/13 20:05	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/06/13 10:50	08/12/13 20:05	1
Toluene-d8 (Surr)	95		75 - 122	08/06/13 10:50	08/12/13 20:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.066	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B04

Lab Sample ID: 500-60580-4

Date Collected: 08/06/13 10:50

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 79.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Acenaphthylene	<0.041		0.041	0.0095	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
4-Nitrophenol	<0.84		0.84	0.22	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Fluorene	<0.041		0.041	0.0094	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Anthracene	<0.041		0.041	0.0098	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Benzo[a]anthracene	<0.041		0.041	0.0087	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B04

Lab Sample ID: 500-60580-4

Date Collected: 08/06/13 10:50

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 79.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.0094	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Di-n-octyl phthalate	0.084	J	0.21	0.084	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Benzo[b]fluoranthene	<0.041		0.041	0.0081	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Benzo[k]fluoranthene	<0.041		0.041	0.0099	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Benzo[a]pyrene	<0.041		0.041	0.0076	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1
3 & 4 Methylphenol	<0.21		0.21	0.079	mg/Kg	☼	08/15/13 07:26	08/19/13 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	39		30 - 110	08/15/13 07:26	08/19/13 20:46	1
Phenol-d5	43		31 - 110	08/15/13 07:26	08/19/13 20:46	1
Nitrobenzene-d5	38		30 - 115	08/15/13 07:26	08/19/13 20:46	1
2-Fluorobiphenyl	43		30 - 119	08/15/13 07:26	08/19/13 20:46	1
2,4,6-Tribromophenol	53		35 - 137	08/15/13 07:26	08/19/13 20:46	1
Terphenyl-d14	46		36 - 134	08/15/13 07:26	08/19/13 20:46	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00083	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
alpha-BHC	<0.0020		0.0020	0.00051	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
alpha-Chlordane	<0.0020		0.0020	0.0010	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
beta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
4,4'-DDD	<0.0020		0.0020	0.00040	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
4,4'-DDT	<0.0020		0.0020	0.0011	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
delta-BHC	<0.0020		0.0020	0.00063	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
Endosulfan I	<0.0020	*	0.0020	0.00087	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
Endrin	<0.0020		0.0020	0.00028	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
Endrin aldehyde	<0.0020		0.0020	0.00034	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
Endrin ketone	<0.0020		0.0020	0.00045	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00043	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
gamma-Chlordane	<0.0020		0.0020	0.00052	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
Heptachlor	<0.0020		0.0020	0.00084	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
Heptachlor epoxide	<0.0020		0.0020	0.00071	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
Methoxychlor	<0.0099		0.0099	0.00039	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1
Toxaphene	<0.020		0.020	0.0084	mg/Kg	☼	08/14/13 21:12	08/16/13 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	55	X	56 - 128	08/14/13 21:12	08/16/13 21:29	1
Tetrachloro-m-xylene	47		45 - 112	08/14/13 21:12	08/16/13 21:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B04

Lab Sample ID: 500-60580-4

Date Collected: 08/06/13 10:50

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 79.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Arsenic	2.9		0.58	0.12	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Barium	94		0.58	0.062	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Beryllium	0.90		0.23	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Boron	4.4		2.9	0.12	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Cadmium	0.26		0.12	0.015	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Calcium	4700	B	12	3.1	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Chromium	21		0.58	0.067	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Cobalt	4.6	B	0.29	0.021	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Copper	24		0.58	0.051	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Iron	17000	B	12	4.8	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Lead	15		0.29	0.086	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Magnesium	4500	B	5.8	1.2	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Manganese	86	B	0.58	0.031	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Nickel	21		0.58	0.057	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Potassium	1500	B	29	1.7	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Selenium	0.56	J	0.58	0.21	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Sodium	220		58	7.8	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Thallium	<0.58		0.58	0.24	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Vanadium	22	B	0.29	0.043	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Zinc	63		1.2	0.23	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1
Aluminum	15000	B	12	1.1	mg/Kg	☼	08/07/13 15:00	09/08/13 01:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 01:13	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 01:13	1
Manganese	0.026		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 01:13	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.80	B	0.50	0.010	mg/L		08/14/13 12:00	09/04/13 23:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	09/04/13 23:29	1
Boron	0.63		0.10	0.050	mg/L		08/14/13 12:00	09/04/13 23:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	09/04/13 23:29	1
Chromium	0.072		0.025	0.010	mg/L		08/14/13 12:00	09/04/13 23:29	1
Cobalt	0.013	J	0.025	0.0050	mg/L		08/14/13 12:00	09/04/13 23:29	1
Iron	53		0.20	0.20	mg/L		08/14/13 12:00	09/04/13 23:29	1
Lead	0.040		0.0075	0.0050	mg/L		08/14/13 12:00	09/04/13 23:29	1
Manganese	0.17		0.025	0.010	mg/L		08/14/13 12:00	09/04/13 23:29	1
Nickel	0.058		0.025	0.010	mg/L		08/14/13 12:00	09/04/13 23:29	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	09/04/13 23:29	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/04/13 23:29	1
Zinc	0.48		0.10	0.020	mg/L		08/14/13 12:00	09/04/13 23:29	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 18:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 18:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B04

Lab Sample ID: 500-60580-4

Date Collected: 08/06/13 10:50

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000020	mg/L		08/14/13 15:00	08/15/13 10:25	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.068	B	0.020	0.0094	mg/Kg	*	08/12/13 15:00	08/13/13 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96		0.200	0.200	SU			08/17/13 14:12	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B05

Lab Sample ID: 500-60580-5

Date Collected: 08/06/13 10:40

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0096		0.0037	0.0016	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Benzene	<0.0037		0.0037	0.00051	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Bromodichloromethane	<0.0037		0.0037	0.00064	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Bromoform	<0.0037		0.0037	0.00086	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Bromomethane	<0.0037		0.0037	0.0011	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
2-Butanone (MEK)	<0.0037		0.0037	0.0014	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Carbon disulfide	<0.0037		0.0037	0.00056	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Carbon tetrachloride	<0.0037		0.0037	0.00068	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Chlorobenzene	<0.0037		0.0037	0.00038	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Chloroethane	<0.0037		0.0037	0.0010	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Chloroform	<0.0037		0.0037	0.00043	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Chloromethane	<0.0037		0.0037	0.00079	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00053	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00049	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Dibromochloromethane	<0.0037		0.0037	0.00065	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
1,1-Dichloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
1,1,1-Dichloroethane	<0.0037		0.0037	0.00060	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
1,2-Dichloropropane	<0.0037		0.0037	0.00057	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.00049	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Ethylbenzene	<0.0037		0.0037	0.00076	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Methylene Chloride	<0.0037		0.0037	0.0010	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00098	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00062	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Styrene	<0.0037		0.0037	0.00049	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
1,1,1,2-Tetrachloroethane	<0.0037		0.0037	0.00076	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Tetrachloroethene	<0.0037		0.0037	0.00057	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Toluene	<0.0037		0.0037	0.00052	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00051	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.00067	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00056	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00051	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Trichloroethene	<0.0037		0.0037	0.00062	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Vinyl acetate	<0.0037		0.0037	0.00059	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Vinyl chloride	<0.0037		0.0037	0.00079	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1
Xylenes, Total	<0.0075		0.0075	0.00034	mg/Kg	☼	08/06/13 10:40	08/12/13 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/06/13 10:40	08/12/13 20:28	1
Dibromofluoromethane	106		75 - 120	08/06/13 10:40	08/12/13 20:28	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/06/13 10:40	08/12/13 20:28	1
Toluene-d8 (Surr)	93		75 - 122	08/06/13 10:40	08/12/13 20:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.92		0.92	0.29	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Bis(2-chloroethyl)ether	<0.92		0.92	0.27	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
1,3-Dichlorobenzene	<0.92		0.92	0.19	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
1,4-Dichlorobenzene	<0.92		0.92	0.19	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B05

Lab Sample ID: 500-60580-5

Date Collected: 08/06/13 10:40

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.92		0.92	0.20	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
2-Methylphenol	<0.92		0.92	0.24	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
2,2'-oxybis[1-chloropropane]	<0.92		0.92	0.20	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
N-Nitrosodi-n-propylamine	<0.92		0.92	0.23	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Hexachloroethane	<0.92		0.92	0.20	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
2-Chlorophenol	<0.92		0.92	0.26	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Nitrobenzene	<0.18		0.18	0.057	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Bis(2-chloroethoxy)methane	<0.92		0.92	0.20	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
1,2,4-Trichlorobenzene	<0.92		0.92	0.21	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Isophorone	<0.92		0.92	0.20	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
2,4-Dimethylphenol	<1.8		1.8	0.57	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Hexachlorobutadiene	<0.92		0.92	0.24	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Naphthalene	<0.18		0.18	0.035	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
2,4-Dichlorophenol	<1.8		1.8	0.56	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
4-Chloroaniline	<3.7		3.7	0.56	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
2,4,6-Trichlorophenol	<1.8		1.8	0.23	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
2,4,5-Trichlorophenol	<1.8		1.8	0.52	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Hexachlorocyclopentadiene	<3.7		3.7	0.85	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
2-Methylnaphthalene	<0.92		0.92	0.24	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
2-Nitroaniline	<0.92		0.92	0.33	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
2-Chloronaphthalene	<0.92		0.92	0.21	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
4-Chloro-3-methylphenol	<1.8		1.8	0.88	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
2,6-Dinitrotoluene	<0.92		0.92	0.22	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
2-Nitrophenol	<1.8		1.8	0.29	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
3-Nitroaniline	<1.8		1.8	0.35	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Dimethyl phthalate	<0.92		0.92	0.23	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
2,4-Dinitrophenol	<3.7		3.7	0.94	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Acenaphthylene	0.042	J	0.18	0.042	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
2,4-Dinitrotoluene	<0.92		0.92	0.28	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Acenaphthene	<0.18		0.18	0.055	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Dibenzofuran	<0.92		0.92	0.22	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
4-Nitrophenol	<3.7		3.7	0.99	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Fluorene	<0.18		0.18	0.042	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
4-Nitroaniline	<1.8		1.8	0.38	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
4-Bromophenyl phenyl ether	<0.92		0.92	0.21	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Hexachlorobenzene	<0.37		0.37	0.036	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Diethyl phthalate	<0.92		0.92	0.31	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
4-Chlorophenyl phenyl ether	<0.92		0.92	0.29	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Pentachlorophenol	<3.7		3.7	0.93	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
N-Nitrosodiphenylamine	<0.92		0.92	0.25	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
4,6-Dinitro-2-methylphenol	<1.8		1.8	0.45	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Phenanthrene	0.77		0.18	0.077	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Anthracene	0.12	J	0.18	0.043	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Carbazole	<0.92		0.92	0.26	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Di-n-butyl phthalate	<0.92		0.92	0.23	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Fluoranthene	1.4		0.18	0.075	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Pyrene	1.2		0.18	0.066	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Butyl benzyl phthalate	<0.92		0.92	0.23	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Benzo[a]anthracene	0.82		0.18	0.038	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B05

Lab Sample ID: 500-60580-5

Date Collected: 08/06/13 10:40

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	1.1		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
3,3'-Dichlorobenzidine	<0.92		0.92	0.15	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Bis(2-ethylhexyl) phthalate	<0.92		0.92	0.24	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Di-n-octyl phthalate	<0.92		0.92	0.37	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Benzo[b]fluoranthene	0.93		0.18	0.036	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Benzo[k]fluoranthene	0.36		0.18	0.044	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Benzo[a]pyrene	0.91		0.18	0.033	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Indeno[1,2,3-cd]pyrene	0.47		0.18	0.062	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Dibenz(a,h)anthracene	0.33		0.18	0.051	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
Benzo[g,h,i]perylene	0.62		0.18	0.062	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5
3 & 4 Methylphenol	<0.92		0.92	0.35	mg/Kg	☼	08/15/13 07:26	08/19/13 21:09	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	45		30 - 110	08/15/13 07:26	08/19/13 21:09	5
Phenol-d5	57		31 - 110	08/15/13 07:26	08/19/13 21:09	5
Nitrobenzene-d5	46		30 - 115	08/15/13 07:26	08/19/13 21:09	5
2-Fluorobiphenyl	52		30 - 119	08/15/13 07:26	08/19/13 21:09	5
2,4,6-Tribromophenol	69		35 - 137	08/15/13 07:26	08/19/13 21:09	5
Terphenyl-d14	61		36 - 134	08/15/13 07:26	08/19/13 21:09	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
alpha-Chlordane	<0.0019		0.0019	0.00095	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
Endosulfan I	<0.0019	*	0.0019	0.00082	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	08/14/13 21:12	08/16/13 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	53	X	56 - 128	08/14/13 21:12	08/16/13 21:48	1
Tetrachloro-m-xylene	42	X	45 - 112	08/14/13 21:12	08/16/13 21:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B05

Lab Sample ID: 500-60580-5

Date Collected: 08/06/13 10:40

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Arsenic	2.9		0.55	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Barium	77		0.55	0.058	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Beryllium	0.73		0.22	0.019	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Boron	2.9		2.7	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Cadmium	0.27		0.11	0.014	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Calcium	4100	B	11	3.0	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Chromium	17		0.55	0.063	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Cobalt	4.7	B	0.27	0.019	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Copper	24		0.55	0.048	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Iron	15000	B	11	4.5	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Lead	13		0.27	0.081	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Magnesium	3900	B	5.5	1.1	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Manganese	100	B	0.55	0.030	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Nickel	20		0.55	0.054	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Potassium	1100	B	27	1.6	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Selenium	0.51	J	0.55	0.19	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Sodium	160		55	7.3	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Vanadium	17	B	0.27	0.040	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Zinc	59		1.1	0.22	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1
Aluminum	12000	B	11	1.0	mg/Kg	☼	08/07/13 15:00	09/08/13 01:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 01:19	1
Lead	0.0098		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 01:19	1
Manganese	0.26		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 01:19	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68	B	0.50	0.010	mg/L		08/14/13 12:00	09/04/13 23:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	09/04/13 23:36	1
Boron	0.63		0.10	0.050	mg/L		08/14/13 12:00	09/04/13 23:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	09/04/13 23:36	1
Chromium	0.035		0.025	0.010	mg/L		08/14/13 12:00	09/04/13 23:36	1
Cobalt	0.0090	J	0.025	0.0050	mg/L		08/14/13 12:00	09/04/13 23:36	1
Iron	34		0.20	0.20	mg/L		08/14/13 12:00	09/04/13 23:36	1
Lead	0.042		0.0075	0.0050	mg/L		08/14/13 12:00	09/04/13 23:36	1
Manganese	0.21		0.025	0.010	mg/L		08/14/13 12:00	09/04/13 23:36	1
Nickel	0.034		0.025	0.010	mg/L		08/14/13 12:00	09/04/13 23:36	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	09/04/13 23:36	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/04/13 23:36	1
Zinc	0.44		0.10	0.020	mg/L		08/14/13 12:00	09/04/13 23:36	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 18:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 18:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Client Sample ID: 846D-50-B05

Lab Sample ID: 500-60580-5

Date Collected: 08/06/13 10:40

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000051	J B	0.00020	0.000020	mg/L	—	08/14/13 15:00	08/15/13 10:27	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	B	0.019	0.0087	mg/Kg	☼	08/12/13 15:00	08/13/13 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.44		0.200	0.200	SU	—		08/17/13 14:15	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact: Andrews Engineering, Inc
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory: Test America - Chicago
 Lab: 2417 Bond Street
 Address: University Park, IL 60484
 Phone: 708-534-5200
 Contact: Dick Wright
 email: richard.wright@testamericainc.com

Project Name: US6/IL7 Will & Cook Co.
 Project No.: IDOT 2013-023
 TAT: 15 BD 10 BD 5 BD 2 BD Other

COC No.: 1 of 1
 Lab Job No.: 500-60580
 Sample Temp.: 36.3, 9.3, 7
 Matrix Key:

W: Water
 S: Soil
 SL: Sludge
 S: Sediment
 L: Leachate
 DW: Drinking Water
 OL: Oil
 O: Other

Comments: 0-8
0-8
0-8
0-8
0-8

Project Name: US6/IL7 Will & Cook Co.
 Project No.: IDOT 2013-023
 TAT: 15 BD 10 BD 5 BD 2 BD Other

Sampler:

ANALYSES		VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization
1	846D-50-B01	X	X			X		X	X	X	X	
2	846D-50-B02	X	X			X		X	X	X	X	
3	846D-50-B03	X	X			X		X	X	X	X	
4	846D-50-B04	X	X			X		X	X	X	X	
5	846D-50-B05	X	X			X		X	X	X	X	

Relinquished by: [Signature] Date/Time: 8/6/13 3:14
 Relinquished by: [Signature] Date/Time: 8/6/13 1600
 Relinquished by: [Signature] Date/Time:

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14248 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59932 Longitude: -87.96555
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1970505142 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59932 Longitude: -87.96555

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATION 846D-51-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-51. SEE FIGURE 10 AND TABLE 3ao OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60580-2

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a clean-up or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

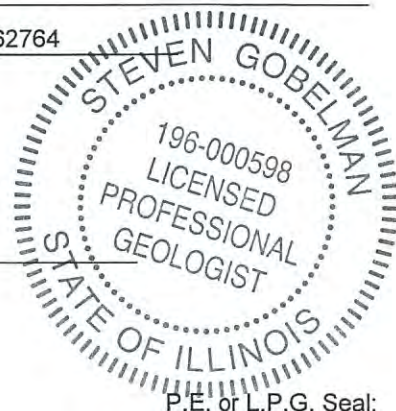
Steven Gobelman

Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

**ISGS Site 846D-51
Vacant Residence**

Sample ID	846D-51-B01						
Sample Depth (ft)	0-6						
Sample Date	8/6/2013						
PID	0						
Sample pH	7.99						
Matrix	Soil						
No Contaminants of Concern Noted.							
		¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-60580-2

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/11/2013 1:31:24 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-2

Client Sample ID: 846D-51-B01

Lab Sample ID: 500-60580-6

Date Collected: 08/06/13 11:40

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00082	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Tetrachloroethene	<0.0049		0.0049	0.00076	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00089	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Trichloroethene	<0.0049		0.0049	0.00082	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Vinyl acetate	<0.0049		0.0049	0.00078	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	08/06/13 11:40	08/12/13 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/06/13 11:40	08/12/13 20:51	1
Dibromofluoromethane	104		75 - 120	08/06/13 11:40	08/12/13 20:51	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/06/13 11:40	08/12/13 20:51	1
Toluene-d8 (Surr)	96		75 - 122	08/06/13 11:40	08/12/13 20:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-2

Client Sample ID: 846D-51-B01

Lab Sample ID: 500-60580-6

Date Collected: 08/06/13 11:40

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 81.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-2

Client Sample ID: 846D-51-B01

Lab Sample ID: 500-60580-6

Date Collected: 08/06/13 11:40

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 81.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Di-n-octyl phthalate	0.20		0.20	0.081	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	08/15/13 07:26	08/19/13 21:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	43		30 - 110				08/15/13 07:26	08/19/13 21:32	1
Phenol-d5	51		31 - 110				08/15/13 07:26	08/19/13 21:32	1
Nitrobenzene-d5	42		30 - 115				08/15/13 07:26	08/19/13 21:32	1
2-Fluorobiphenyl	48		30 - 119				08/15/13 07:26	08/19/13 21:32	1
2,4,6-Tribromophenol	73		35 - 137				08/15/13 07:26	08/19/13 21:32	1
Terphenyl-d14	59		36 - 134				08/15/13 07:26	08/19/13 21:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Arsenic	9.4		0.56	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Barium	85		0.56	0.060	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Beryllium	0.77		0.22	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Boron	9.7		2.8	0.12	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Cadmium	1.1		0.11	0.014	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Calcium	30000	B	11	3.0	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Chromium	20		0.56	0.065	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Cobalt	9.5	B	0.28	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Copper	29		0.56	0.050	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Iron	21000	B	11	4.6	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Lead	140		0.28	0.083	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Magnesium	20000	B	5.6	1.2	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Manganese	520	B	0.56	0.030	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Nickel	26		0.56	0.055	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Potassium	2000	B	28	1.7	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Selenium	0.43	J	0.56	0.20	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Silver	0.020	J B	0.28	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Sodium	930		56	7.5	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Vanadium	24	B	0.28	0.041	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Zinc	110		1.1	0.23	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1
Aluminum	11000	B	11	1.0	mg/Kg	☼	08/07/13 15:00	09/08/13 02:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.31		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 01:25	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 01:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-2

Client Sample ID: 846D-51-B01

Lab Sample ID: 500-60580-6

Date Collected: 08/06/13 11:40

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53	B	0.50	0.010	mg/L		08/14/13 12:00	09/04/13 23:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	09/04/13 23:42	1
Boron	0.62		0.10	0.050	mg/L		08/14/13 12:00	09/04/13 23:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	09/04/13 23:42	1
Chromium	0.019	J	0.025	0.010	mg/L		08/14/13 12:00	09/04/13 23:42	1
Cobalt	0.0054	J	0.025	0.0050	mg/L		08/14/13 12:00	09/04/13 23:42	1
Iron	16		0.20	0.20	mg/L		08/14/13 12:00	09/04/13 23:42	1
Lead	0.010		0.0075	0.0050	mg/L		08/14/13 12:00	09/04/13 23:42	1
Manganese	0.066		0.025	0.010	mg/L		08/14/13 12:00	09/04/13 23:42	1
Nickel	0.016	J	0.025	0.010	mg/L		08/14/13 12:00	09/04/13 23:42	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	09/04/13 23:42	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/04/13 23:42	1
Zinc	0.35		0.10	0.020	mg/L		08/14/13 12:00	09/04/13 23:42	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 18:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 18:54	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000033	J B	0.00020	0.000020	mg/L		08/14/13 15:00	08/15/13 10:29	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029	B	0.020	0.0093	mg/Kg	☆	08/12/13 15:00	08/13/13 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.99		0.200	0.200	SU			08/17/13 14:19	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-2

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	Duplicate RPD exceeds the control limit
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>US6 / IL 7 Will & Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60580</u> Sample Temp.: <u>36.3, 9.3, 7</u> Matrix Key:													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
1	846D-50-B01	8/6	11:10	S	X	X			X		X	X	X	X		0-8
2	846D-50-B02	↓	11:00	S	X	X			X		X	X	X	X		0-8
3	846D-50-B03	↓	10:55	S	X	X			X		X	X	X	X		0-8
4	846D-50-B04	↓	10:50	S	X	X			X		X	X	X	X		0-8
5	846D-50-B05	↓	10:40	S	X	X			X		X	X	X	X		0-8
Relinquished by: <u>[Signature]</u> Date/Time: <u>8/6/13 3:14</u> Received by: <u>[Signature]</u> Date/Time: <u>8/6/13 1600</u>																
Relinquished by: <u>[Signature]</u> Date/Time: <u>8/6/13 1600</u> Received by: <u>[Signature]</u> Date/Time: <u>8/6/13 1600</u>																
Relinquished by: <u>[Signature]</u> Date/Time: <u>8/6/13 1600</u> Received by: <u>[Signature]</u> Date/Time: <u>8/6/13 1600</u>																



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6 / IL 7 Wiley v Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60580</u> Sample Temp: <u>3, 6, 3, 9, 3, 7</u> Matrix Key: _____													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
6	846D-51-B01	8/6	11:40	S	X	X					X	X	X	X		0-4
Relinquished by:					Date/Time	Received by:					Date/Time	Date/Time				
Relinquished by:					8/6/13 3:14	Received by:					8/6/13 1514	Date/Time				
Relinquished by:					8/6/13 1600	Received by:					8/6/13 1600	Date/Time				



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>456/IL-7 Willow Creek Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AET</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60580</u> Sample Temp: <u>3, 6, 39, 3, 7</u> Matrix/Key:																																																																																																						
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> <th>VOCs</th> <th>SVOCs</th> <th>BTEX & MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>16</td> <td>846D-54-B01-1</td> <td>8/6/13</td> <td>11:50</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-5.5'</td> </tr> <tr> <td>17</td> <td>846D-54-B01-2</td> <td></td> <td>11:55</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>5.5-11'</td> </tr> <tr> <td>18</td> <td>846D-54-B01-2 DUP</td> <td></td> <td>12:15</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>5.5-11'</td> </tr> <tr> <td>19</td> <td>846D-54-B02-1</td> <td></td> <td>11:30</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-5.5'</td> </tr> <tr> <td>20</td> <td>846D-54-B02-2</td> <td></td> <td>11:35</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>5.5'-11'</td> </tr> </tbody> </table>		Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	16	846D-54-B01-1	8/6/13	11:50	S	X	X					X	X	X	X		0-5.5'	17	846D-54-B01-2		11:55	S	X	X					X	X	X	X		5.5-11'	18	846D-54-B01-2 DUP		12:15	S	X	X					X	X	X	X		5.5-11'	19	846D-54-B02-1		11:30	S	X	X					X	X	X	X		0-5.5'	20	846D-54-B02-2		11:35	S	X	X					X	X	X	X		5.5'-11'
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments																																																																																									
16	846D-54-B01-1	8/6/13	11:50	S	X	X					X	X	X	X		0-5.5'																																																																																									
17	846D-54-B01-2		11:55	S	X	X					X	X	X	X		5.5-11'																																																																																									
18	846D-54-B01-2 DUP		12:15	S	X	X					X	X	X	X		5.5-11'																																																																																									
19	846D-54-B02-1		11:30	S	X	X					X	X	X	X		0-5.5'																																																																																									
20	846D-54-B02-2		11:35	S	X	X					X	X	X	X		5.5'-11'																																																																																									
Relinquished by: <u>Kiana McVee (AET)</u>		Received by: <u>[Signature]</u>																																																																																																							
Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u>																																																																																																							
Relinquished by:		Received by:																																																																																																							



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>456/IL7Willow & Cook Co.</u> Project No.: <u>FDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEI</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60580</u> Sample Temp: <u>3,6,39,37</u> Matrix Key:																																																																							
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES																																																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">21</td> <td style="text-align: center;">840D-55-B01-1</td> <td style="text-align: center;">8/6/13</td> <td style="text-align: center;">11:05</td> <td style="text-align: center;">S</td> </tr> <tr> <td style="text-align: center;">22</td> <td style="text-align: center;">840D-55-B01-2</td> <td style="text-align: center;"> </td> <td style="text-align: center;">11:10</td> <td style="text-align: center;">S</td> </tr> <tr> <td style="text-align: center;">23</td> <td style="text-align: center;">840D-55-B02-1</td> <td style="text-align: center;"> </td> <td style="text-align: center;">10:30</td> <td style="text-align: center;">S</td> </tr> <tr> <td style="text-align: center;">24</td> <td style="text-align: center;">840D-55-B02-2</td> <td style="text-align: center;">+</td> <td style="text-align: center;">10:35</td> <td style="text-align: center;">S</td> </tr> </tbody> </table>	Lab ID	Sample ID	Sample Date	Sample Time	Matrix	21	840D-55-B01-1	8/6/13	11:05	S	22	840D-55-B01-2		11:10	S	23	840D-55-B02-1		10:30	S	24	840D-55-B02-2	+	10:35	S	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>W: Water</th> <th>S: Soil</th> <th>SL: Sludge</th> <th>S: Sediment</th> <th>L: Leachate</th> <th>DW: Drinking Water</th> <th>OL: Oil</th> <th>O: Other</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">0-5'</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">5-10'</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">0-5'</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">5-10'</td> </tr> </tbody> </table>				W: Water	S: Soil	SL: Sludge	S: Sediment	L: Leachate	DW: Drinking Water	OL: Oil	O: Other	Comments									0-5'									5-10'									0-5'									5-10'
Lab ID	Sample ID	Sample Date	Sample Time	Matrix																																																																						
21	840D-55-B01-1	8/6/13	11:05	S																																																																						
22	840D-55-B01-2		11:10	S																																																																						
23	840D-55-B02-1		10:30	S																																																																						
24	840D-55-B02-2	+	10:35	S																																																																						
W: Water	S: Soil	SL: Sludge	S: Sediment	L: Leachate	DW: Drinking Water	OL: Oil	O: Other	Comments																																																																		
								0-5'																																																																		
								5-10'																																																																		
								0-5'																																																																		
								5-10'																																																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SVOCs</th> <th>VOCs</th> <th>BETX & MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> </tr> </tbody> </table>					SVOCs	VOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	X	X			X		X	X	X	X		X	X			X		X	X	X	X		X	X			X		X	X	X	X		X	X			X		X	X	X	X																
SVOCs	VOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization																																																																
X	X			X		X	X	X	X																																																																	
X	X			X		X	X	X	X																																																																	
X	X			X		X	X	X	X																																																																	
X	X			X		X	X	X	X																																																																	
Relinquished by: <u>Kim Young (AEI)</u> Date/Time: <u>8/6/13 3:14</u> Received by: <u>[Signature]</u> Date/Time: <u>8/6/13/1574</u>																																																																										
Relinquished by: <u>[Signature]</u> Date/Time: <u>8/6/13 1600</u> Received by: <u>[Signature]</u> Date/Time: <u>8/6/13 1600</u>																																																																										
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____																																																																										



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7 Wild & Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: _____ Sampler: _____	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60580</u> Sample Temp: <u>3.6, 3.9, 3.7</u> Matrix Key: _____																																																																																					
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES																																																																																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> </tr> </thead> <tbody> <tr> <td>21</td> <td>840D-55-B01-1</td> <td>8/6/13</td> <td>11:05</td> <td>S</td> </tr> <tr> <td>22</td> <td>840D-55-B01-2</td> <td>↓</td> <td>11:10</td> <td>S</td> </tr> <tr> <td>23</td> <td>840D-55-B02-1</td> <td>↓</td> <td>10:30</td> <td>S</td> </tr> <tr> <td>24</td> <td>840D-55-B02-2</td> <td>↓</td> <td>10:35</td> <td>S</td> </tr> </tbody> </table>	Lab ID	Sample ID	Sample Date	Sample Time	Matrix	21	840D-55-B01-1	8/6/13	11:05	S	22	840D-55-B01-2	↓	11:10	S	23	840D-55-B02-1	↓	10:30	S	24	840D-55-B02-2	↓	10:35	S	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>VOCs</th> <th>SVOCs</th> <th>BETX & MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-5'</td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>5-10'</td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-5'</td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>5-10'</td> </tr> </tbody> </table>	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	X	X			X		X	X	X	X		0-5'	X	X			X		X	X	X	X		5-10'	X	X			X		X	X	X	X		0-5'	X	X			X		X	X	X	X		5-10'	W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other	Date/Time: _____ Date/Time: _____ Date/Time: _____
Lab ID	Sample ID	Sample Date	Sample Time	Matrix																																																																																				
21	840D-55-B01-1	8/6/13	11:05	S																																																																																				
22	840D-55-B01-2	↓	11:10	S																																																																																				
23	840D-55-B02-1	↓	10:30	S																																																																																				
24	840D-55-B02-2	↓	10:35	S																																																																																				
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments																																																																													
X	X			X		X	X	X	X		0-5'																																																																													
X	X			X		X	X	X	X		5-10'																																																																													
X	X			X		X	X	X	X		0-5'																																																																													
X	X			X		X	X	X	X		5-10'																																																																													
Relinquished by: <u>Rich Wright (AEI)</u> Relinquished by: <u>[Signature]</u> Relinquished by: _____	Date/Time: <u>8/6/13 3:14</u> Date/Time: <u>8/6/13 1600</u> Date/Time: _____	Received by: <u>[Signature]</u> Received by: <u>[Signature]</u> Received by: _____	Date/Time: <u>8/6/13 1514</u> Date/Time: <u>8/6/13 1600</u> Date/Time: _____																																																																																					



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14154 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59937 Longitude: -87.96495
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59937 Longitude: -87.96495

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-52-B02 WAS SAMPLED ADJACENT TO SITE NO. 846D-52. SEE FIGURE 10 AND TABLE 3ap OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60580-3

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

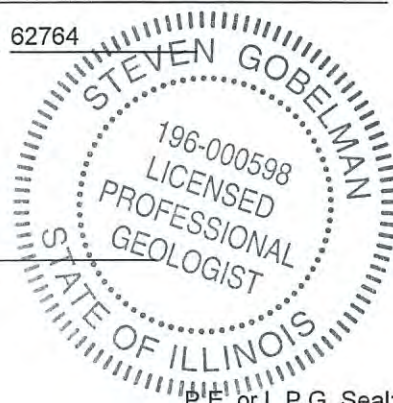
Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/18/14
Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-52

Gardenpatch Farms and Orchard

Sample ID	846D-52-B02								
Sample Depth (ft)	0-8								
Sample Date	8/6/2013								
PID	0								
Sample pH	8.19								
Matrix	Soil								
Inorganic Compounds, Total (mg/kg)									
Arsenic	13	1,3	11.3	NA	NA	11.3	NA	NA	13
									NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-60580-3
Client Project/Site: IDOT - Gougar - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/11/2013 1:32:49 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-3

Client Sample ID: 846D-52-B02

Lab Sample ID: 500-60580-9

Date Collected: 08/06/13 12:00

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Benzene	<0.0046		0.0046	0.00062	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Bromoform	<0.0046		0.0046	0.0010	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Chloroform	<0.0046		0.0046	0.00052	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Dibromochloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00075	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	08/06/13 12:00	08/12/13 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	08/06/13 12:00	08/12/13 21:59	1
Dibromofluoromethane	109		75 - 120	08/06/13 12:00	08/12/13 21:59	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	08/06/13 12:00	08/12/13 21:59	1
Toluene-d8 (Surr)	95		75 - 122	08/06/13 12:00	08/12/13 21:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-3

Client Sample ID: 846D-52-B02

Lab Sample ID: 500-60580-9

Date Collected: 08/06/13 12:00

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-3

Client Sample ID: 846D-52-B02

Lab Sample ID: 500-60580-9

Date Collected: 08/06/13 12:00

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/15/13 07:26	08/19/13 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		30 - 110	08/15/13 07:26	08/19/13 22:40	1
Phenol-d5	52		31 - 110	08/15/13 07:26	08/19/13 22:40	1
Nitrobenzene-d5	46		30 - 115	08/15/13 07:26	08/19/13 22:40	1
2-Fluorobiphenyl	51		30 - 119	08/15/13 07:26	08/19/13 22:40	1
2,4,6-Tribromophenol	55		35 - 137	08/15/13 07:26	08/19/13 22:40	1
Terphenyl-d14	53		36 - 134	08/15/13 07:26	08/19/13 22:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Arsenic	13		0.57	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Barium	46		0.57	0.061	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Beryllium	0.75		0.23	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Boron	10		2.8	0.12	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Cadmium	0.54		0.11	0.014	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Calcium	30000	B	11	3.1	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Chromium	18		0.57	0.066	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Cobalt	12	B	0.28	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Copper	31		0.57	0.050	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Iron	27000	B	11	4.7	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Lead	22		0.28	0.085	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Magnesium	16000	B	5.7	1.2	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Manganese	460	B	0.57	0.031	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Nickel	33		0.57	0.056	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Potassium	2400	B	28	1.7	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Selenium	0.25	J	0.57	0.20	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Sodium	110		57	7.6	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Thallium	0.34	J	0.57	0.24	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Vanadium	23	B	0.28	0.042	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Zinc	63		1.1	0.23	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1
Aluminum	12000	B	11	1.0	mg/Kg	☼	08/07/13 15:00	09/08/13 02:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 01:44	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 01:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-3

Client Sample ID: 846D-52-B02

Lab Sample ID: 500-60580-9

Date Collected: 08/06/13 12:00

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.17		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 01:44	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.78	B	0.50	0.010	mg/L		08/14/13 12:00	09/05/13 00:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	09/05/13 00:15	1
Boron	0.95		0.10	0.050	mg/L		08/14/13 12:00	09/05/13 00:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	09/05/13 00:15	1
Chromium	0.045		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 00:15	1
Cobalt	0.012	J	0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 00:15	1
Iron	51		0.20	0.20	mg/L		08/14/13 12:00	09/05/13 00:15	1
Lead	0.025		0.0075	0.0050	mg/L		08/14/13 12:00	09/05/13 00:15	1
Manganese	0.23		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 00:15	1
Nickel	0.052		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 00:15	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	09/05/13 00:15	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 00:15	1
Zinc	0.53		0.10	0.020	mg/L		08/14/13 12:00	09/05/13 00:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 18:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 18:59	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000075	J B	0.00020	0.000020	mg/L		08/14/13 15:00	08/15/13 10:39	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	B	0.017	0.0080	mg/Kg	☼	08/12/13 15:00	08/13/13 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU			08/17/13 14:30	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>US6 / IL 7 Will & Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60580</u> Sample Temp.: <u>36.3, 9.3, 7</u> Matrix Key:								
Waste Characterization W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other											
ANALYSES											
VOCs	SVOCs	BETX & MTBF	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X			X		X	X	X	X		0-8
X	X	</									



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>456/IL-7 Willow Creek Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AET</u>	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60580</u> Sample Temp: <u>3, 6, 39, 3, 7</u> Matrix/Key:																																																																																																						
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> <th>VOCs</th> <th>SVOCs</th> <th>BTEX & MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>16</td> <td>846D-54-B01-1</td> <td>8/6/13</td> <td>11:50</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-5.5'</td> </tr> <tr> <td>17</td> <td>846D-54-B01-2</td> <td></td> <td>11:55</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>5.5-11'</td> </tr> <tr> <td>18</td> <td>846D-54-B01-2 DUP</td> <td></td> <td>12:15</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>5.5-11'</td> </tr> <tr> <td>19</td> <td>846D-54-B02-1</td> <td></td> <td>11:30</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-5.5'</td> </tr> <tr> <td>20</td> <td>846D-54-B02-2</td> <td></td> <td>11:35</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>5.5'-11'</td> </tr> </tbody> </table>		Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	16	846D-54-B01-1	8/6/13	11:50	S	X	X					X	X	X	X		0-5.5'	17	846D-54-B01-2		11:55	S	X	X					X	X	X	X		5.5-11'	18	846D-54-B01-2 DUP		12:15	S	X	X					X	X	X	X		5.5-11'	19	846D-54-B02-1		11:30	S	X	X					X	X	X	X		0-5.5'	20	846D-54-B02-2		11:35	S	X	X					X	X	X	X		5.5'-11'
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments																																																																																									
16	846D-54-B01-1	8/6/13	11:50	S	X	X					X	X	X	X		0-5.5'																																																																																									
17	846D-54-B01-2		11:55	S	X	X					X	X	X	X		5.5-11'																																																																																									
18	846D-54-B01-2 DUP		12:15	S	X	X					X	X	X	X		5.5-11'																																																																																									
19	846D-54-B02-1		11:30	S	X	X					X	X	X	X		0-5.5'																																																																																									
20	846D-54-B02-2		11:35	S	X	X					X	X	X	X		5.5'-11'																																																																																									
Relinquished by: <u>Kiana McVee (AET)</u>		Relinquished by: <u>[Signature]</u>		Date/Time: <u>8/6/13 3:14</u>	Date/Time: <u>8-6-13/15-101</u>																																																																																																				
Relinquished by:		Relinquished by: <u>[Signature]</u>		Date/Time: <u>8/6/13 1600</u>	Date/Time: <u>8/6/13 1600</u>																																																																																																				
Relinquished by:		Relinquished by:		Date/Time:	Date/Time:																																																																																																				



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>456/IL7Willow & Cook Co.</u> Project No.: <u>FDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEI</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60580</u> Sample Temp: <u>3,6,39,37</u> Matrix Key:																																																																																					
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES																																																																																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">21</td> <td style="text-align: center;">840D-55-B01-1</td> <td style="text-align: center;">8/6/13</td> <td style="text-align: center;">11:05</td> <td style="text-align: center;">S</td> </tr> <tr> <td style="text-align: center;">22</td> <td style="text-align: center;">840D-55-B01-2</td> <td style="text-align: center;"> </td> <td style="text-align: center;">11:10</td> <td style="text-align: center;">S</td> </tr> <tr> <td style="text-align: center;">23</td> <td style="text-align: center;">840D-55-B02-1</td> <td style="text-align: center;"> </td> <td style="text-align: center;">10:30</td> <td style="text-align: center;">S</td> </tr> <tr> <td style="text-align: center;">24</td> <td style="text-align: center;">840D-55-B02-2</td> <td style="text-align: center;">↑</td> <td style="text-align: center;">10:35</td> <td style="text-align: center;">S</td> </tr> </tbody> </table>	Lab ID	Sample ID	Sample Date	Sample Time	Matrix	21	840D-55-B01-1	8/6/13	11:05	S	22	840D-55-B01-2		11:10	S	23	840D-55-B02-1		10:30	S	24	840D-55-B02-2	↑	10:35	S	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>VOCS</th> <th>SVOCs</th> <th>BETX & MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">0-5'</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">5-10'</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">0-5'</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">5-10'</td> </tr> </tbody> </table>	VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	X	X			X		X	X	X	X		0-5'	X	X			X		X	X	X	X		5-10'	X	X			X		X	X	X	X		0-5'	X	X			X		X	X	X	X		5-10'	W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix																																																																																				
21	840D-55-B01-1	8/6/13	11:05	S																																																																																				
22	840D-55-B01-2		11:10	S																																																																																				
23	840D-55-B02-1		10:30	S																																																																																				
24	840D-55-B02-2	↑	10:35	S																																																																																				
VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments																																																																													
X	X			X		X	X	X	X		0-5'																																																																													
X	X			X		X	X	X	X		5-10'																																																																													
X	X			X		X	X	X	X		0-5'																																																																													
X	X			X		X	X	X	X		5-10'																																																																													
Relinquished by: <u>Kim Young (AEI)</u> Relinquished by: <u>Kim Young (AEI)</u> Relinquished by:	Date/Time <u>8/6/13 3:14</u> Date/Time <u>8/6/13 1600</u> Date/Time	Received by: <u>[Signature]</u> Received by: <u>[Signature]</u> Received by:	Date/Time <u>8/6/13/1574</u> Date/Time <u>8/6/13 1600</u> Date/Time																																																																																					



CHAIN OF CUSTODY RECORD

Client Contact
 Andrews Engineering, Inc
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 Lab: Test America - Chicago
 Address: 2417 Bond Street
 University Park, IL 60484
 Phone: 708-534-5200
 Contact: Dick Wright
 email: richard.wright@testamericainc.com

Project Name: US6/IL7 Will & Cook Co.
 Project No.: IDOT 2013-023
 TAT: 15 BD 10 BD 5 BD 2 BD Other

COC No.: 1 of 1
 Lab Job No.: 500-60580
 Sample Temp: 3,6,3,9,3,7
 Matrix Key:

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
1	846D-50-B01	8/6	11:10	S	X	X			X		X	X	X	X		0-8
2	846D-50-B02		11:00	S	X	X			X		X	X	X	X		0-8
3	846D-50-B03		10:58	S	X	X			X		X	X	X	X		0-8
4	846D-50-B04		10:50	S	X	X			X		X	X	X	X		0-8
5	846D-50-B05		10:40	S	X	X			X		X	X	X	X		0-8

Relinquished by: [Signature] Date/Time: 8/6/13 3:14
 Relinquished by: [Signature] Date/Time: 8/6/13 1600
 Relinquished by: [Signature] Date/Time: 8/6/13 1600

Received by: [Signature] Date/Time: 8-6-13 1514
 Received by: [Signature] Date/Time: 8/6/13 1600
 Received by: [Signature] Date/Time: 8/6/13 1600



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7 Wild & Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: _____ Sampler: _____	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60580</u> Sample Temp: <u>3.6, 3.9, 3.7</u> Matrix Key: _____																																																																																																						
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES																																																																																																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> </tr> </thead> <tbody> <tr> <td>21</td> <td>840D-55-B01-1</td> <td>8/6/13</td> <td>11:05</td> <td>S</td> </tr> <tr> <td>22</td> <td>840D-55-B01-2</td> <td>↓</td> <td>11:10</td> <td>S</td> </tr> <tr> <td>23</td> <td>840D-55-B02-1</td> <td>↓</td> <td>10:30</td> <td>S</td> </tr> <tr> <td>24</td> <td>840D-55-B02-2</td> <td>↓</td> <td>10:35</td> <td>S</td> </tr> </tbody> </table>	Lab ID	Sample ID	Sample Date	Sample Time	Matrix	21	840D-55-B01-1	8/6/13	11:05	S	22	840D-55-B01-2	↓	11:10	S	23	840D-55-B02-1	↓	10:30	S	24	840D-55-B02-2	↓	10:35	S	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>W: Water</th> <th>S: Soil</th> <th>SL: Sludge</th> <th>S: Sediment</th> <th>L: Leachate</th> <th>DW: Drinking Water</th> <th>OL: Oil</th> <th>O: Other</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	W: Water	S: Soil	SL: Sludge	S: Sediment	L: Leachate	DW: Drinking Water	OL: Oil	O: Other									<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>0-5'</td> </tr> <tr> <td>5-10'</td> </tr> <tr> <td>0-5'</td> </tr> <tr> <td>5-10'</td> </tr> </tbody> </table>	Comments	0-5'	5-10'	0-5'	5-10'	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Waste Characterization</th> <th>% Solids</th> <th>pH</th> <th>SPLP/** TCLP Metals</th> <th>* Total Metals</th> <th>PCBs</th> <th>Pesticides</th> <th>PNAs</th> <th>BETX & MTBE</th> <th>SVOCs</th> <th>VOCs</th> </tr> </thead> <tbody> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> </tbody> </table>	Waste Characterization	% Solids	pH	SPLP/** TCLP Metals	* Total Metals	PCBs	Pesticides	PNAs	BETX & MTBE	SVOCs	VOCs		X	X	X	X		X			X	X		X	X	X	X		X			X	X		X	X	X	X		X			X	X		X	X	X	X		X			X	X	Date/Time: <u>8/6/13 1514</u> Date/Time: <u>8/6/13 1600</u> Date/Time: _____
Lab ID	Sample ID	Sample Date	Sample Time	Matrix																																																																																																					
21	840D-55-B01-1	8/6/13	11:05	S																																																																																																					
22	840D-55-B01-2	↓	11:10	S																																																																																																					
23	840D-55-B02-1	↓	10:30	S																																																																																																					
24	840D-55-B02-2	↓	10:35	S																																																																																																					
W: Water	S: Soil	SL: Sludge	S: Sediment	L: Leachate	DW: Drinking Water	OL: Oil	O: Other																																																																																																		
Comments																																																																																																									
0-5'																																																																																																									
5-10'																																																																																																									
0-5'																																																																																																									
5-10'																																																																																																									
Waste Characterization	% Solids	pH	SPLP/** TCLP Metals	* Total Metals	PCBs	Pesticides	PNAs	BETX & MTBE	SVOCs	VOCs																																																																																															
	X	X	X	X		X			X	X																																																																																															
	X	X	X	X		X			X	X																																																																																															
	X	X	X	X		X			X	X																																																																																															
	X	X	X	X		X			X	X																																																																																															
Relinquished by: <u>Rich Wright (AEI)</u> Relinquished by: _____ Relinquished by: _____		Received by: _____ Received by: _____ Received by: _____																																																																																																							



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14136 & 14140 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59940 Longitude: -87.96335
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59940 Longitude: -87.96335

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-53-B02 AND -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-53. SEE FIGURE 10 AND TABLE 3aq OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60580-4

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

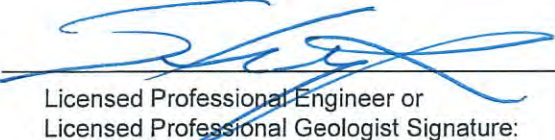
Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

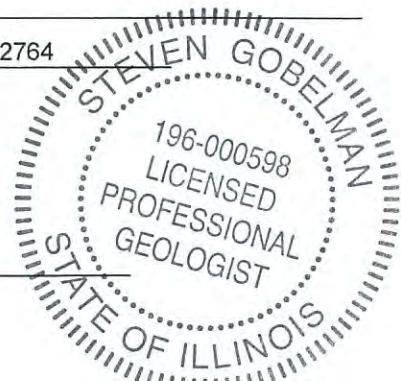
City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman
Printed Name:


Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14
Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-53

Cassello's Western Wear and Residence

Sample ID	846D-53-B02-1	846D-53-B02-2	846D-53-B03-1	846D-53-B03-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5.5	5.5-11	0-5.5	5.5-11						
Sample Date	8/6/2013	8/6/2013	8/6/2013	8/6/2013						
PID	0	0	0	0						
Sample pH	8.4	8.27	8.27	8.28						
Matrix	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-60580-4
Client Project/Site: IDOT - Gougar - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/11/2013 4:02:18 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B02-1

Lab Sample ID: 500-60580-12

Date Collected: 08/06/13 12:25

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011		0.0043	0.0019	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
1,1-Dichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	08/06/13 12:25	08/13/13 12:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/06/13 12:25	08/13/13 12:29	1
Dibromofluoromethane	100		75 - 120	08/06/13 12:25	08/13/13 12:29	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	08/06/13 12:25	08/13/13 12:29	1
Toluene-d8 (Surr)	95		75 - 122	08/06/13 12:25	08/13/13 12:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B02-1

Lab Sample ID: 500-60580-12

Date Collected: 08/06/13 12:25

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B02-1

Lab Sample ID: 500-60580-12

Date Collected: 08/06/13 12:25

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Di-n-octyl phthalate	0.15	J	0.19	0.076	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Benzo[b]fluoranthene	0.0078	J	0.037	0.0073	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Benzo[a]pyrene	<0.037		0.037	0.0069	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/15/13 07:26	08/19/13 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		30 - 110	08/15/13 07:26	08/19/13 23:48	1
Phenol-d5	60		31 - 110	08/15/13 07:26	08/19/13 23:48	1
Nitrobenzene-d5	46		30 - 115	08/15/13 07:26	08/19/13 23:48	1
2-Fluorobiphenyl	55		30 - 119	08/15/13 07:26	08/19/13 23:48	1
2,4,6-Tribromophenol	76		35 - 137	08/15/13 07:26	08/19/13 23:48	1
Terphenyl-d14	74		36 - 134	08/15/13 07:26	08/19/13 23:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Arsenic	9.1		0.55	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Barium	64		0.55	0.059	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Beryllium	0.63		0.22	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Boron	6.1		2.8	0.12	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Cadmium	0.44		0.11	0.014	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Calcium	28000	B	11	3.0	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Chromium	16		0.55	0.064	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Cobalt	12	B	0.28	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Copper	25		0.55	0.049	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Iron	21000	B	11	4.6	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Lead	15		0.28	0.083	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Magnesium	18000	B	5.5	1.1	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Manganese	540	B	0.55	0.030	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Nickel	29		0.55	0.054	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Potassium	1500	B	28	1.7	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Selenium	0.22	J	0.55	0.20	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Sodium	190		55	7.4	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Thallium	0.35	J	0.55	0.23	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Vanadium	19	B	0.28	0.041	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Zinc	47		1.1	0.22	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1
Aluminum	10000	B	11	1.0	mg/Kg	☼	08/07/13 15:00	09/08/13 02:40	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.83	B	0.50	0.010	mg/L		08/14/13 12:00	09/05/13 00:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	09/05/13 00:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B02-1

Lab Sample ID: 500-60580-12

Date Collected: 08/06/13 12:25

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.2		0.10	0.050	mg/L		08/14/13 12:00	09/05/13 00:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	09/05/13 00:34	1
Chromium	<0.025		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 00:34	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 00:34	1
Iron	2.1		0.20	0.20	mg/L		08/14/13 12:00	09/05/13 00:34	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/14/13 12:00	09/05/13 00:34	1
Manganese	0.063		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 00:34	1
Nickel	<0.025		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 00:34	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	09/05/13 00:34	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 00:34	1
Zinc	0.55		0.10	0.020	mg/L		08/14/13 12:00	09/05/13 00:34	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 19:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 19:03	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/14/13 15:00	08/15/13 10:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035	B	0.018	0.0083	mg/Kg	☼	08/12/13 15:00	08/13/13 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.40		0.200	0.200	SU			08/17/13 14:40	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B02-2

Lab Sample ID: 500-60580-13

Date Collected: 08/06/13 12:30

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 88.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Dibromochloromethane	<0.0043		0.0043	0.00076	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
1,1-Dichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Ethylbenzene	<0.0043		0.0043	0.00088	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00072	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Trichloroethene	<0.0043		0.0043	0.00072	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	08/06/13 12:30	08/13/13 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/06/13 12:30	08/13/13 12:52	1
Dibromofluoromethane	107		75 - 120	08/06/13 12:30	08/13/13 12:52	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	08/06/13 12:30	08/13/13 12:52	1
Toluene-d8 (Surr)	94		75 - 122	08/06/13 12:30	08/13/13 12:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B02-2

Lab Sample ID: 500-60580-13

Date Collected: 08/06/13 12:30

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 88.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B02-2

Lab Sample ID: 500-60580-13

Date Collected: 08/06/13 12:30

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 88.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/15/13 07:26	08/20/13 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	35		30 - 110	08/15/13 07:26	08/20/13 00:10	1
Phenol-d5	40		31 - 110	08/15/13 07:26	08/20/13 00:10	1
Nitrobenzene-d5	34		30 - 115	08/15/13 07:26	08/20/13 00:10	1
2-Fluorobiphenyl	36		30 - 119	08/15/13 07:26	08/20/13 00:10	1
2,4,6-Tribromophenol	40		35 - 137	08/15/13 07:26	08/20/13 00:10	1
Terphenyl-d14	41		36 - 134	08/15/13 07:26	08/20/13 00:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Arsenic	7.5		0.54	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Barium	38		0.54	0.058	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Beryllium	0.51		0.22	0.019	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Boron	9.1		2.7	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Cadmium	0.42		0.11	0.014	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Calcium	67000	B	110	29	mg/Kg	☼	08/07/13 15:00	09/08/13 11:53	10
Chromium	13		0.54	0.063	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Cobalt	11	B	0.27	0.019	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Copper	22		0.54	0.048	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Iron	17000	B	11	4.4	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Lead	12		0.27	0.081	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Magnesium	29000	B	5.4	1.1	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Manganese	380	B	0.54	0.029	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Nickel	22		0.54	0.053	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Potassium	2100	B	27	1.6	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Selenium	0.32	J	0.54	0.19	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Sodium	150		54	7.3	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Vanadium	15	B	0.27	0.040	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Zinc	45		1.1	0.22	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1
Aluminum	7400	B	11	1.0	mg/Kg	☼	08/07/13 15:00	09/08/13 02:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 02:17	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 02:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B02-2

Lab Sample ID: 500-60580-13

Date Collected: 08/06/13 12:30

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.4		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 02:17	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.85	B	0.50	0.010	mg/L		08/14/13 12:00	09/05/13 00:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	09/05/13 00:40	1
Boron	1.1		0.10	0.050	mg/L		08/14/13 12:00	09/05/13 00:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	09/05/13 00:40	1
Chromium	0.033		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 00:40	1
Cobalt	0.0096	J	0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 00:40	1
Iron	30		0.20	0.20	mg/L		08/14/13 12:00	09/05/13 00:40	1
Lead	0.017		0.0075	0.0050	mg/L		08/14/13 12:00	09/05/13 00:40	1
Manganese	0.17		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 00:40	1
Nickel	0.036		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 00:40	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	09/05/13 00:40	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 00:40	1
Zinc	0.60		0.10	0.020	mg/L		08/14/13 12:00	09/05/13 00:40	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 19:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 19:04	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000065	J B	0.00020	0.000020	mg/L		08/14/13 15:00	08/15/13 10:47	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031	B	0.018	0.0084	mg/Kg	☼	08/12/13 15:00	08/13/13 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.27		0.200	0.200	SU			08/17/13 14:44	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B03-1

Lab Sample ID: 500-60580-14

Date Collected: 08/06/13 12:35

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0047		0.0040	0.0017	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Bromoform	<0.0040		0.0040	0.00093	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Chloromethane	<0.0040		0.0040	0.00085	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
1,1-Dichloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
1,1-Dichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Ethylbenzene	<0.0040		0.0040	0.00081	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0011	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00067	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Tetrachloroethene	<0.0040		0.0040	0.00062	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Vinyl chloride	<0.0040		0.0040	0.00085	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1
Xylenes, Total	<0.0081		0.0081	0.00036	mg/Kg	☼	08/06/13 12:35	08/13/13 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/06/13 12:35	08/13/13 13:15	1
Dibromofluoromethane	104		75 - 120	08/06/13 12:35	08/13/13 13:15	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/06/13 12:35	08/13/13 13:15	1
Toluene-d8 (Surr)	93		75 - 122	08/06/13 12:35	08/13/13 13:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B03-1

Lab Sample ID: 500-60580-14

Date Collected: 08/06/13 12:35

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B03-1

Lab Sample ID: 500-60580-14

Date Collected: 08/06/13 12:35

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Di-n-octyl phthalate	0.12	J	0.19	0.075	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/15/13 07:26	08/20/13 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	39		30 - 110				08/15/13 07:26	08/20/13 00:33	1
Phenol-d5	48		31 - 110				08/15/13 07:26	08/20/13 00:33	1
Nitrobenzene-d5	39		30 - 115				08/15/13 07:26	08/20/13 00:33	1
2-Fluorobiphenyl	43		30 - 119				08/15/13 07:26	08/20/13 00:33	1
2,4,6-Tribromophenol	58		35 - 137				08/15/13 07:26	08/20/13 00:33	1
Terphenyl-d14	62		36 - 134				08/15/13 07:26	08/20/13 00:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Arsenic	8.1		0.55	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Barium	32		0.55	0.059	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Beryllium	0.56		0.22	0.019	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Boron	9.4		2.7	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Cadmium	0.47		0.11	0.014	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Calcium	72000	B	110	30	mg/Kg	☼	08/07/13 15:00	09/08/13 12:00	10
Chromium	14		0.55	0.063	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Cobalt	7.0	B	0.27	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Copper	22		0.55	0.049	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Iron	18000	B	11	4.5	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Lead	11		0.27	0.082	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Magnesium	26000	B	5.5	1.1	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Manganese	270	B	0.55	0.030	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Nickel	22		0.55	0.054	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Potassium	2100	B	27	1.6	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Sodium	140		55	7.3	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Thallium	0.31	J	0.55	0.23	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Vanadium	17	B	0.27	0.041	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Zinc	43		1.1	0.22	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1
Aluminum	8400	B	11	1.0	mg/Kg	☼	08/07/13 15:00	09/08/13 02:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 02:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B03-1

Lab Sample ID: 500-60580-14

Date Collected: 08/06/13 12:35

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.78	B	0.50	0.010	mg/L		08/14/13 12:00	09/05/13 00:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	09/05/13 00:46	1
Boron	1.1		0.10	0.050	mg/L		08/14/13 12:00	09/05/13 00:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	09/05/13 00:46	1
Chromium	0.011	J	0.025	0.010	mg/L		08/14/13 12:00	09/05/13 00:46	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 00:46	1
Iron	8.2		0.20	0.20	mg/L		08/14/13 12:00	09/05/13 00:46	1
Lead	0.0051	J	0.0075	0.0050	mg/L		08/14/13 12:00	09/05/13 00:46	1
Manganese	0.071		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 00:46	1
Nickel	<0.025		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 00:46	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	09/05/13 00:46	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 00:46	1
Zinc	0.55		0.10	0.020	mg/L		08/14/13 12:00	09/05/13 00:46	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 19:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 19:05	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000022	J B	0.00020	0.000020	mg/L		08/14/13 15:00	08/15/13 10:49	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	B	0.019	0.0087	mg/Kg	✱	08/12/13 15:00	08/13/13 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.27		0.200	0.200	SU			08/17/13 14:47	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B03-2

Lab Sample ID: 500-60580-15

Date Collected: 08/06/13 12:40

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0018	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Bromoform	<0.0043		0.0043	0.00098	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Dibromochloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Ethylbenzene	<0.0043		0.0043	0.00086	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00086	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Tetrachloroethene	<0.0043		0.0043	0.00065	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	08/06/13 12:40	08/13/13 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/06/13 12:40	08/13/13 13:38	1
Dibromofluoromethane	104		75 - 120	08/06/13 12:40	08/13/13 13:38	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/06/13 12:40	08/13/13 13:38	1
Toluene-d8 (Surr)	95		75 - 122	08/06/13 12:40	08/13/13 13:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B03-2

Lab Sample ID: 500-60580-15

Date Collected: 08/06/13 12:40

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B03-2

Lab Sample ID: 500-60580-15

Date Collected: 08/06/13 12:40

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.036	0.0082	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Bis(2-ethylhexyl) phthalate	0.048	J	0.18	0.048	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Di-n-octyl phthalate	0.12	J	0.18	0.074	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Benzo[b]fluoranthene	0.0084	J	0.036	0.0071	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Benzo[a]pyrene	0.011	J	0.036	0.0066	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Benzo[g,h,i]perylene	0.014	J	0.036	0.012	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/15/13 07:26	08/20/13 00:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		30 - 110				08/15/13 07:26	08/20/13 00:55	1
Phenol-d5	52		31 - 110				08/15/13 07:26	08/20/13 00:55	1
Nitrobenzene-d5	42		30 - 115				08/15/13 07:26	08/20/13 00:55	1
2-Fluorobiphenyl	48		30 - 119				08/15/13 07:26	08/20/13 00:55	1
2,4,6-Tribromophenol	57		35 - 137				08/15/13 07:26	08/20/13 00:55	1
Terphenyl-d14	56		36 - 134				08/15/13 07:26	08/20/13 00:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Arsenic	6.3		0.55	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Barium	29		0.55	0.059	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Beryllium	0.46		0.22	0.019	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Boron	8.0		2.8	0.12	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Cadmium	0.32		0.11	0.014	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Calcium	46000	B	11	3.0	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Chromium	12		0.55	0.064	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Cobalt	7.0	B	0.28	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Copper	23		0.55	0.049	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Iron	15000	B	11	4.5	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Lead	11		0.28	0.082	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Magnesium	23000	B	5.5	1.1	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Manganese	340	B	0.55	0.030	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Nickel	20		0.55	0.054	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Potassium	1800	B	28	1.7	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Selenium	0.33	J	0.55	0.20	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Sodium	120		55	7.4	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Vanadium	14	B	0.28	0.041	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Zinc	36		1.1	0.22	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1
Aluminum	6600	B	11	1.0	mg/Kg	☼	08/07/13 15:00	09/08/13 03:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 02:30	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 02:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Client Sample ID: 846D-53-B03-2

Lab Sample ID: 500-60580-15

Date Collected: 08/06/13 12:40

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.80	B	0.50	0.010	mg/L		08/14/13 12:00	09/05/13 00:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	09/05/13 00:53	1
Boron	1.1		0.10	0.050	mg/L		08/14/13 12:00	09/05/13 00:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	09/05/13 00:53	1
Chromium	0.016	J	0.025	0.010	mg/L		08/14/13 12:00	09/05/13 00:53	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 00:53	1
Iron	13		0.20	0.20	mg/L		08/14/13 12:00	09/05/13 00:53	1
Lead	0.013		0.0075	0.0050	mg/L		08/14/13 12:00	09/05/13 00:53	1
Manganese	0.13		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 00:53	1
Nickel	0.014	J	0.025	0.010	mg/L		08/14/13 12:00	09/05/13 00:53	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	09/05/13 00:53	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 00:53	1
Zinc	0.52		0.10	0.020	mg/L		08/14/13 12:00	09/05/13 00:53	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 19:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 19:06	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000095	J B	0.00020	0.000020	mg/L		08/14/13 15:00	08/15/13 10:51	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031	B	0.017	0.0081	mg/Kg	✱	08/12/13 15:00	08/13/13 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28		0.200	0.200	SU			08/17/13 14:54	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-4

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14118 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59939 Longitude: -87.96236
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)Latitude: 41.59939 Longitude: -87.96236Uncontaminated Site Certification**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-54-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-54. SEE FIGURE 10 AND TABLE 3a OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60580-5

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

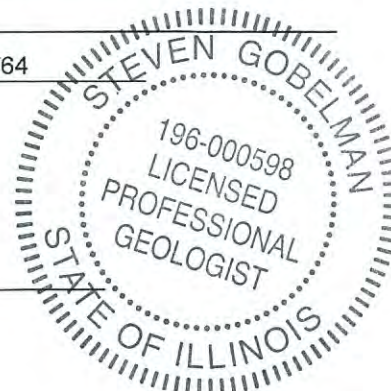
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date: 11/13/19

P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-54

Residence

Sample ID	846D-54-B01-1	846D-54-B01-2	846D-54-B01-2 DUJ	846D-54-B02-1	846D-54-B02-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5.5	5.5-11	5.5-11	0-5.5	5.5-11						
Sample Date	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013						
PID	0	0	0	0	0						
Sample pH	8.28	8.27	8.3	8.32	8.38						
Matrix	Soil	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-60580-5

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/11/2013 2:57:05 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B01-1

Lab Sample ID: 500-60580-16

Date Collected: 08/06/13 11:50

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 88.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
1,1-Dichloroethene	<0.0043		0.0043	0.00069	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	08/06/13 11:50	08/13/13 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	08/06/13 11:50	08/13/13 14:00	1
Dibromofluoromethane	106		75 - 120	08/06/13 11:50	08/13/13 14:00	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/06/13 11:50	08/13/13 14:00	1
Toluene-d8 (Surr)	93		75 - 122	08/06/13 11:50	08/13/13 14:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B01-1

Lab Sample ID: 500-60580-16

Date Collected: 08/06/13 11:50

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 88.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
2-Chlorophenol	<0.18		0.18	0.053	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Acenaphthylene	<0.037		0.037	0.0084	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
4-Nitroaniline	<0.37		0.37	0.075	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Anthracene	<0.037		0.037	0.0086	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B01-1

Lab Sample ID: 500-60580-16

Date Collected: 08/06/13 11:50

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 88.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Di-n-octyl phthalate	<0.18		0.18	0.075	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Benzo[b]fluoranthene	<0.037		0.037	0.0071	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
3 & 4 Methylphenol	<0.18		0.18	0.070	mg/Kg	☼	08/15/13 07:26	08/20/13 01:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	39		30 - 110				08/15/13 07:26	08/20/13 01:18	1
Phenol-d5	47		31 - 110				08/15/13 07:26	08/20/13 01:18	1
Nitrobenzene-d5	42		30 - 115				08/15/13 07:26	08/20/13 01:18	1
2-Fluorobiphenyl	45		30 - 119				08/15/13 07:26	08/20/13 01:18	1
2,4,6-Tribromophenol	67		35 - 137				08/15/13 07:26	08/20/13 01:18	1
Terphenyl-d14	77		36 - 134				08/15/13 07:26	08/20/13 01:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Arsenic	8.0		0.52	0.10	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Barium	50		0.52	0.056	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Beryllium	0.61		0.21	0.018	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Boron	9.2		2.6	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Cadmium	0.46		0.10	0.013	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Calcium	70000	B	100	28	mg/Kg	☼	08/07/13 15:00	09/08/13 12:06	10
Chromium	15		0.52	0.060	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Cobalt	9.1	B	0.26	0.019	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Copper	21		0.52	0.046	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Iron	19000	B	10	4.3	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Lead	12		0.26	0.077	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Magnesium	25000	B	5.2	1.1	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Manganese	420	B	0.52	0.028	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Nickel	25		0.52	0.051	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Potassium	2100	B	26	1.6	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Selenium	<0.52		0.52	0.18	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Sodium	150		52	7.0	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Thallium	0.32	J	0.52	0.22	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Vanadium	19	B	0.26	0.038	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Zinc	45		1.0	0.21	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1
Aluminum	9400	B	10	0.95	mg/Kg	☼	08/07/13 15:00	09/08/13 03:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 02:36	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 02:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B01-1

Lab Sample ID: 500-60580-16

Date Collected: 08/06/13 11:50

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.22		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 02:36	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.84	B	0.50	0.010	mg/L		08/14/13 12:00	09/05/13 01:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	09/05/13 01:32	1
Boron	1.0		0.10	0.050	mg/L		08/14/13 12:00	09/05/13 01:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	09/05/13 01:32	1
Chromium	0.041		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 01:32	1
Cobalt	0.011	J	0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 01:32	1
Iron	42		0.20	0.20	mg/L		08/14/13 12:00	09/05/13 01:32	1
Lead	0.017		0.0075	0.0050	mg/L		08/14/13 12:00	09/05/13 01:32	1
Manganese	0.22		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 01:32	1
Nickel	0.041		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 01:32	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	09/05/13 01:32	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 01:32	1
Zinc	0.57		0.10	0.020	mg/L		08/14/13 12:00	09/05/13 01:32	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 19:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 19:14	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000080	J B	0.00020	0.000020	mg/L		08/14/13 15:00	08/15/13 10:53	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031	B	0.018	0.0085	mg/Kg	☼	08/12/13 15:00	08/13/13 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28		0.200	0.200	SU			08/17/13 14:58	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B01-2

Lab Sample ID: 500-60580-17

Date Collected: 08/06/13 11:55

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
1,1-Dichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	08/06/13 11:55	08/13/13 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/06/13 11:55	08/13/13 14:23	1
Dibromofluoromethane	106		75 - 120	08/06/13 11:55	08/13/13 14:23	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/06/13 11:55	08/13/13 14:23	1
Toluene-d8 (Surr)	93		75 - 122	08/06/13 11:55	08/13/13 14:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B01-2

Lab Sample ID: 500-60580-17

Date Collected: 08/06/13 11:55

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Benzo[a]anthracene	<0.036		0.036	0.0075	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B01-2

Lab Sample ID: 500-60580-17

Date Collected: 08/06/13 11:55

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0081	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	08/15/13 07:26	08/20/13 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	32		30 - 110	08/15/13 07:26	08/20/13 01:40	1
Phenol-d5	41		31 - 110	08/15/13 07:26	08/20/13 01:40	1
Nitrobenzene-d5	32		30 - 115	08/15/13 07:26	08/20/13 01:40	1
2-Fluorobiphenyl	37		30 - 119	08/15/13 07:26	08/20/13 01:40	1
2,4,6-Tribromophenol	47		35 - 137	08/15/13 07:26	08/20/13 01:40	1
Terphenyl-d14	52		36 - 134	08/15/13 07:26	08/20/13 01:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Arsenic	7.5		0.55	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Barium	32		0.55	0.059	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Beryllium	0.57		0.22	0.019	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Boron	9.4		2.7	0.12	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Cadmium	0.46		0.11	0.014	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Calcium	76000	B	110	30	mg/Kg	☼	08/07/13 15:00	09/08/13 12:12	10
Chromium	15		0.55	0.064	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Cobalt	6.5	B	0.27	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Copper	22		0.55	0.049	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Iron	18000	B	11	4.5	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Lead	11		0.27	0.082	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Magnesium	26000	B	5.5	1.1	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Manganese	290	B	0.55	0.030	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Nickel	20		0.55	0.054	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Potassium	2200	B	27	1.6	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Sodium	140		55	7.3	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Vanadium	17	B	0.27	0.041	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Zinc	42		1.1	0.22	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1
Aluminum	8600	B	11	1.0	mg/Kg	☼	08/07/13 15:00	09/08/13 03:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 02:42	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 02:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B01-2

Lab Sample ID: 500-60580-17

Date Collected: 08/06/13 11:55

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.91		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 02:42	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 02:42	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.81	B	0.50	0.010	mg/L		08/14/13 12:00	09/05/13 01:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	09/05/13 01:39	1
Boron	0.94		0.10	0.050	mg/L		08/14/13 12:00	09/05/13 01:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	09/05/13 01:39	1
Chromium	0.076		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 01:39	1
Cobalt	0.030		0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 01:39	1
Iron	89		0.20	0.20	mg/L		08/14/13 12:00	09/05/13 01:39	1
Lead	0.043		0.0075	0.0050	mg/L		08/14/13 12:00	09/05/13 01:39	1
Manganese	0.41		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 01:39	1
Nickel	0.10		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 01:39	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	09/05/13 01:39	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 01:39	1
Zinc	0.65		0.10	0.020	mg/L		08/14/13 12:00	09/05/13 01:39	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/13 08:30	09/11/13 11:32	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 19:16	1
Thallium	0.0026		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 19:16	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J B	0.00020	0.000020	mg/L		08/14/13 15:00	08/15/13 10:55	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030	B	0.018	0.0086	mg/Kg	☼	08/12/13 15:00	08/13/13 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.27		0.200	0.200	SU			08/17/13 15:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B01-2 DUP

Lab Sample ID: 500-60580-18

Date Collected: 08/06/13 12:15

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0018	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Bromoform	<0.0043		0.0043	0.00098	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Dibromochloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
1,1-Dichloroethene	<0.0043		0.0043	0.00069	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Ethylbenzene	<0.0043		0.0043	0.00086	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00086	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Tetrachloroethene	<0.0043		0.0043	0.00065	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Trichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1
Xylenes, Total	<0.0085		0.0085	0.00039	mg/Kg	☼	08/06/13 12:15	08/13/13 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	08/06/13 12:15	08/13/13 14:46	1
Dibromofluoromethane	104		75 - 120	08/06/13 12:15	08/13/13 14:46	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/06/13 12:15	08/13/13 14:46	1
Toluene-d8 (Surr)	93		75 - 122	08/06/13 12:15	08/13/13 14:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B01-2 DUP

Lab Sample ID: 500-60580-18

Date Collected: 08/06/13 12:15

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B01-2 DUP

Lab Sample ID: 500-60580-18

Date Collected: 08/06/13 12:15

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0081	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
Benzo[g,h,i]perylene	0.015	J	0.036	0.012	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	08/15/13 07:26	08/20/13 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	35		30 - 110	08/15/13 07:26	08/20/13 19:23	1
Phenol-d5	37		31 - 110	08/15/13 07:26	08/20/13 19:23	1
Nitrobenzene-d5	37		30 - 115	08/15/13 07:26	08/20/13 19:23	1
2-Fluorobiphenyl	45		30 - 119	08/15/13 07:26	08/20/13 19:23	1
2,4,6-Tribromophenol	38		35 - 137	08/15/13 07:26	08/20/13 19:23	1
Terphenyl-d14	58		36 - 134	08/15/13 07:26	08/20/13 19:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Arsenic	9.3		0.55	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Barium	32		0.55	0.058	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Beryllium	0.59		0.22	0.019	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Boron	10		2.7	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Cadmium	0.45		0.11	0.014	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Calcium	52000	B	11	3.0	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Chromium	15		0.55	0.063	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Cobalt	8.9	B	0.27	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Copper	25		0.55	0.048	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Iron	19000	B	11	4.5	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Lead	12		0.27	0.081	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Magnesium	25000	B	5.5	1.1	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Manganese	350	B	0.55	0.030	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Nickel	24		0.55	0.054	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Potassium	2300	B	27	1.6	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Sodium	130		55	7.3	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Vanadium	18	B	0.27	0.040	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Zinc	46		1.1	0.22	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1
Aluminum	8500	B	11	1.0	mg/Kg	☼	08/07/13 15:00	09/08/13 03:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/10/13 08:30	09/11/13 02:48	1
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 02:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B01-2 DUP

Lab Sample ID: 500-60580-18

Date Collected: 08/06/13 12:15

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 02:48	1
Manganese	0.94		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 02:48	1
Nickel	<0.025		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 02:48	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.81	B	0.50	0.010	mg/L		08/14/13 12:00	09/05/13 01:45	1
Beryllium	0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	09/05/13 01:45	1
Boron	0.94		0.10	0.050	mg/L		08/14/13 12:00	09/05/13 01:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	09/05/13 01:45	1
Chromium	0.081		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 01:45	1
Cobalt	0.037		0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 01:45	1
Iron	100		0.20	0.20	mg/L		08/14/13 12:00	09/05/13 01:45	1
Lead	0.050		0.0075	0.0050	mg/L		08/14/13 12:00	09/05/13 01:45	1
Manganese	0.44		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 01:45	1
Nickel	0.11		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 01:45	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	09/05/13 01:45	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 01:45	1
Zinc	0.67		0.10	0.020	mg/L		08/14/13 12:00	09/05/13 01:45	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/13 08:30	09/11/13 11:36	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 19:17	1
Thallium	0.0030		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 19:17	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00015	J B	0.00020	0.000020	mg/L		08/14/13 15:00	08/15/13 11:01	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029	B	0.017	0.0081	mg/Kg	☼	08/12/13 15:00	08/13/13 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.200	0.200	SU			08/17/13 15:05	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B02-1

Lab Sample ID: 500-60580-19

Date Collected: 08/06/13 11:30

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	08/06/13 11:30	08/13/13 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/06/13 11:30	08/13/13 15:08	1
Dibromofluoromethane	103		75 - 120	08/06/13 11:30	08/13/13 15:08	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/06/13 11:30	08/13/13 15:08	1
Toluene-d8 (Surr)	93		75 - 122	08/06/13 11:30	08/13/13 15:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B02-1

Lab Sample ID: 500-60580-19

Date Collected: 08/06/13 11:30

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B02-1

Lab Sample ID: 500-60580-19

Date Collected: 08/06/13 11:30

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Bis(2-ethylhexyl) phthalate	0.097	J	0.19	0.051	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/15/13 07:26	08/20/13 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	29	X	30 - 110	08/15/13 07:26	08/20/13 19:41	1
Phenol-d5	34		31 - 110	08/15/13 07:26	08/20/13 19:41	1
Nitrobenzene-d5	33		30 - 115	08/15/13 07:26	08/20/13 19:41	1
2-Fluorobiphenyl	38		30 - 119	08/15/13 07:26	08/20/13 19:41	1
2,4,6-Tribromophenol	38		35 - 137	08/15/13 07:26	08/20/13 19:41	1
Terphenyl-d14	60		36 - 134	08/15/13 07:26	08/20/13 19:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Arsenic	4.4		0.59	0.12	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Barium	48		0.59	0.063	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Beryllium	0.64		0.24	0.021	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Boron	7.4		3.0	0.12	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Cadmium	0.39		0.12	0.015	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Calcium	37000	B	12	3.2	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Chromium	16		0.59	0.069	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Cobalt	6.2	B	0.30	0.021	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Copper	27		0.59	0.052	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Iron	23000	B	12	4.9	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Lead	12		0.30	0.088	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Magnesium	22000	B	5.9	1.2	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Manganese	230	B	0.59	0.032	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Nickel	19		0.59	0.058	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Potassium	1800	B	30	1.8	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Selenium	0.26	J	0.59	0.21	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Sodium	150		59	7.9	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Thallium	0.30	J	0.59	0.25	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Vanadium	20	B	0.30	0.044	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Zinc	52		1.2	0.24	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1
Aluminum	10000	B	12	1.1	mg/Kg	☼	08/07/13 15:00	09/08/13 03:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 02:55	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 02:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B02-1

Lab Sample ID: 500-60580-19

Date Collected: 08/06/13 11:30

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.84	B	0.50	0.010	mg/L		08/14/13 12:00	09/05/13 01:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	09/05/13 01:51	1
Boron	1.1		0.10	0.050	mg/L		08/14/13 12:00	09/05/13 01:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	09/05/13 01:51	1
Chromium	0.019	J	0.025	0.010	mg/L		08/14/13 12:00	09/05/13 01:51	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 01:51	1
Iron	18		0.20	0.20	mg/L		08/14/13 12:00	09/05/13 01:51	1
Lead	0.0079		0.0075	0.0050	mg/L		08/14/13 12:00	09/05/13 01:51	1
Manganese	0.067		0.025	0.010	mg/L		08/14/13 12:00	09/05/13 01:51	1
Nickel	0.013	J	0.025	0.010	mg/L		08/14/13 12:00	09/05/13 01:51	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	09/05/13 01:51	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	09/05/13 01:51	1
Zinc	0.57		0.10	0.020	mg/L		08/14/13 12:00	09/05/13 01:51	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 19:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 19:18	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000025	J B	0.00020	0.000020	mg/L		08/14/13 15:00	08/15/13 11:03	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034	B	0.020	0.0093	mg/Kg	✱	08/12/13 15:00	08/13/13 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU			08/17/13 15:08	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B02-2

Lab Sample ID: 500-60580-20

Date Collected: 08/06/13 11:35

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 85.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0058		0.0042	0.0018	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Bromodichloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Bromoform	<0.0042		0.0042	0.00097	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Carbon tetrachloride	<0.0042		0.0042	0.00077	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Chloroform	<0.0042		0.0042	0.00049	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Chloromethane	<0.0042		0.0042	0.00089	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00060	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
1,1-Dichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00070	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00076	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00058	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Trichloroethene	<0.0042		0.0042	0.00070	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Vinyl chloride	<0.0042		0.0042	0.00089	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	08/06/13 11:35	08/13/13 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	08/06/13 11:35	08/13/13 15:31	1
Dibromofluoromethane	105		75 - 120	08/06/13 11:35	08/13/13 15:31	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/06/13 11:35	08/13/13 15:31	1
Toluene-d8 (Surr)	94		75 - 122	08/06/13 11:35	08/13/13 15:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B02-2

Lab Sample ID: 500-60580-20

Date Collected: 08/06/13 11:35

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B02-2

Lab Sample ID: 500-60580-20

Date Collected: 08/06/13 11:35

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/15/13 07:26	08/20/13 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	26	X	30 - 110	08/15/13 07:26	08/20/13 19:59	1
Phenol-d5	29	X	31 - 110	08/15/13 07:26	08/20/13 19:59	1
Nitrobenzene-d5	32		30 - 115	08/15/13 07:26	08/20/13 19:59	1
2-Fluorobiphenyl	40		30 - 119	08/15/13 07:26	08/20/13 19:59	1
2,4,6-Tribromophenol	29	X	35 - 137	08/15/13 07:26	08/20/13 19:59	1
Terphenyl-d14	55		36 - 134	08/15/13 07:26	08/20/13 19:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Arsenic	5.8		0.56	0.11	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Barium	35		0.56	0.060	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Beryllium	0.58		0.22	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Boron	9.4		2.8	0.12	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Cadmium	0.38		0.11	0.014	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Calcium	56000	B	11	3.0	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Chromium	16		0.56	0.065	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Cobalt	6.3	B	0.28	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Copper	24		0.56	0.050	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Iron	17000	B	11	4.6	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Lead	11		0.28	0.084	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Magnesium	26000	B	5.6	1.2	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Manganese	300	B	0.56	0.030	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Nickel	19		0.56	0.055	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Potassium	2300	B	28	1.7	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Sodium	180		56	7.5	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Vanadium	18	B	0.28	0.042	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Zinc	42		1.1	0.23	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1
Aluminum	9200	B	11	1.0	mg/Kg	☼	08/07/13 15:00	09/08/13 03:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 03:16	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 03:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Client Sample ID: 846D-54-B02-2

Lab Sample ID: 500-60580-20

Date Collected: 08/06/13 11:35

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.72		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 03:16	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.88		0.50	0.010	mg/L		08/14/13 12:00	08/16/13 17:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	08/16/13 17:55	1
Boron	1.2		0.10	0.050	mg/L		08/14/13 12:00	08/16/13 17:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	08/16/13 17:55	1
Chromium	0.079		0.025	0.010	mg/L		08/14/13 12:00	08/16/13 17:55	1
Cobalt	0.023	J	0.025	0.0050	mg/L		08/14/13 12:00	08/16/13 17:55	1
Iron	90		0.20	0.20	mg/L		08/14/13 12:00	08/16/13 17:55	1
Lead	0.045		0.0075	0.0050	mg/L		08/14/13 12:00	08/16/13 17:55	1
Manganese	0.41		0.025	0.010	mg/L		08/14/13 12:00	08/16/13 17:55	1
Nickel	0.079		0.025	0.010	mg/L		08/14/13 12:00	08/16/13 17:55	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	08/16/13 17:55	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	08/16/13 17:55	1
Zinc	0.73		0.10	0.020	mg/L		08/14/13 12:00	08/16/13 17:55	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/13 08:30	09/11/13 11:56	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 19:21	1
Thallium	0.0020		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 19:21	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.000020	mg/L		08/14/13 15:00	08/15/13 11:15	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029	B	0.018	0.0087	mg/Kg	☼	08/12/13 15:00	08/13/13 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.38		0.200	0.200	SU			08/17/13 15:12	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-5

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>456/IL7 Willow Creek Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AET</u>	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60580</u> Sample Temp: <u>3.6, 3.9, 3.7</u> Matrix Key:													
Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other																
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
16	846D-54-B01-1	8/6/13	11:50	S	X	X					X	X	X	X		0-5.5'
17	846D-54-B01-2		11:55	S	X	X					X	X	X	X		5.5-11'
18	846D-54-B01-2 DUP		12:15	S	X	X					X	X	X	X		5.5-11'
19	846D-54-B02-1		11:30	S	X	X					X	X	X	X		0-5.5'
20	846D-54-B02-2		11:35	S	X	X					X	X	X	X		5.5'-11'
Relinquished by: <u>Kim A. Wright (AET)</u> Date/Time: <u>8/6/13 3:14</u> Received by: <u>[Signature]</u>																
Relinquished by: <u>[Signature]</u> Date/Time: <u>8/6/13 1600</u> Received by: <u>[Signature]</u>																
Relinquished by: <u>[Signature]</u> Date/Time: <u>8/6/13 1600</u> Received by: <u>[Signature]</u>																



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14012 to 11416 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59940 Longitude: -87.96133
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)Latitude: 41.59940 Longitude: -87.96133Uncontaminated Site Certification**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-55-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-55. SEE FIGURES 10 & 11, AND TABLE 3as OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60580-6

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

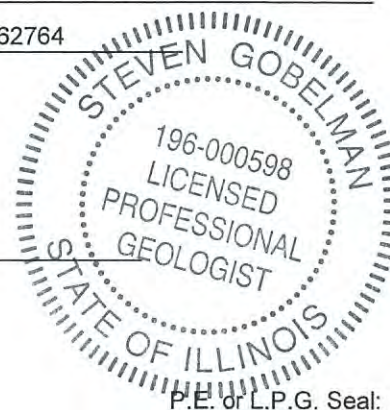
I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date: 11/13/14

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-55

Farmstead and Partially Wooded Area

Sample ID	846D-55-B01-1	846D-55-B01-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	5-10						
Sample Date	8/6/2013	8/6/2013						
PID	0	0						
Sample pH	8.3	8.17						
Matrix	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-60580-6
Client Project/Site: IDOT - Gougar - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/11/2013 2:57:33 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-6

Client Sample ID: 846D-55-B01-1

Lab Sample ID: 500-60580-21

Date Collected: 08/06/13 11:05

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	08/06/13 11:05	08/13/13 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/06/13 11:05	08/13/13 15:54	1
Dibromofluoromethane	104		75 - 120	08/06/13 11:05	08/13/13 15:54	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/06/13 11:05	08/13/13 15:54	1
Toluene-d8 (Surr)	93		75 - 122	08/06/13 11:05	08/13/13 15:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-6

Client Sample ID: 846D-55-B01-1

Lab Sample ID: 500-60580-21

Date Collected: 08/06/13 11:05

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-6

Client Sample ID: 846D-55-B01-1

Lab Sample ID: 500-60580-21

Date Collected: 08/06/13 11:05

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Benzo[a]pyrene	<0.037		0.037	0.0069	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/13/13 17:11	08/20/13 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		30 - 110	08/13/13 17:11	08/20/13 20:17	1
Phenol-d5	49		31 - 110	08/13/13 17:11	08/20/13 20:17	1
Nitrobenzene-d5	48		30 - 115	08/13/13 17:11	08/20/13 20:17	1
2-Fluorobiphenyl	55		30 - 119	08/13/13 17:11	08/20/13 20:17	1
2,4,6-Tribromophenol	54		35 - 137	08/13/13 17:11	08/20/13 20:17	1
Terphenyl-d14	68		36 - 134	08/13/13 17:11	08/20/13 20:17	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
beta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
4,4'-DDT	<0.0019		0.0019	0.00097	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
delta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
Endosulfan I	<0.0019	*	0.0019	0.00081	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
gamma-Chlordane	<0.0019		0.0019	0.00048	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
Methoxychlor	<0.0092		0.0092	0.00036	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1
Toxaphene	<0.018		0.018	0.0078	mg/Kg	☼	08/14/13 21:12	08/16/13 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		56 - 128	08/14/13 21:12	08/16/13 22:26	1
Tetrachloro-m-xylene	50		45 - 112	08/14/13 21:12	08/16/13 22:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-6

Client Sample ID: 846D-55-B01-1

Lab Sample ID: 500-60580-21

Date Collected: 08/06/13 11:05

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 86.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Arsenic	10		0.57	0.11	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Barium	48		0.57	0.061	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Beryllium	0.55		0.23	0.020	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Boron	7.2		2.9	0.12	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Cadmium	0.27		0.11	0.015	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Calcium	50000	B	11	3.1	mg/Kg	☼	08/09/13 14:00	08/29/13 00:38	1
Chromium	15		0.57	0.067	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Cobalt	12		0.29	0.020	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Copper	22		0.57	0.051	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Iron	20000	B	11	4.7	mg/Kg	☼	08/09/13 14:00	08/29/13 00:38	1
Lead	16		0.29	0.085	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Magnesium	21000	B	5.7	1.2	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Manganese	430	B	0.57	0.031	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Nickel	30		0.57	0.056	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Potassium	1600	B	29	1.7	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Selenium	0.26	J	0.57	0.20	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Sodium	290	B	57	7.7	mg/Kg	☼	08/09/13 14:00	08/29/13 00:38	1
Thallium	0.43	J	0.57	0.24	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Vanadium	18		0.29	0.042	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Zinc	62	B	1.1	0.23	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1
Aluminum	9500	B	11	1.1	mg/Kg	☼	08/09/13 14:00	08/18/13 15:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 03:55	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 03:55	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.73		0.50	0.010	mg/L		08/14/13 12:00	08/16/13 18:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	08/16/13 18:01	1
Boron	1.1		0.10	0.050	mg/L		08/14/13 12:00	08/16/13 18:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	08/16/13 18:01	1
Chromium	0.025		0.025	0.010	mg/L		08/14/13 12:00	08/16/13 18:01	1
Cobalt	0.0050	J	0.025	0.0050	mg/L		08/14/13 12:00	08/16/13 18:01	1
Iron	23		0.20	0.20	mg/L		08/14/13 12:00	08/16/13 18:01	1
Lead	0.014		0.0075	0.0050	mg/L		08/14/13 12:00	08/16/13 18:01	1
Manganese	0.092		0.025	0.010	mg/L		08/14/13 12:00	08/16/13 18:01	1
Nickel	0.020	J	0.025	0.010	mg/L		08/14/13 12:00	08/16/13 18:01	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	08/16/13 18:01	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	08/16/13 18:01	1
Zinc	0.54		0.10	0.020	mg/L		08/14/13 12:00	08/16/13 18:01	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 19:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 19:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-6

Client Sample ID: 846D-55-B01-1

Lab Sample ID: 500-60580-21

Date Collected: 08/06/13 11:05

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000032	J	0.00020	0.000020	mg/L	—	08/14/13 15:00	08/15/13 11:17	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049	B	0.018	0.0086	mg/Kg	☼	08/12/13 15:00	08/13/13 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.200	0.200	SU	—		08/17/13 15:15	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-6

Client Sample ID: 846D-55-B01-2

Lab Sample ID: 500-60580-22

Date Collected: 08/06/13 11:10

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Tetrachloroethene	<0.0043		0.0043	0.00065	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	08/06/13 11:10	08/13/13 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/06/13 11:10	08/13/13 16:17	1
Dibromofluoromethane	101		75 - 120	08/06/13 11:10	08/13/13 16:17	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/06/13 11:10	08/13/13 16:17	1
Toluene-d8 (Surr)	96		75 - 122	08/06/13 11:10	08/13/13 16:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-6

Client Sample ID: 846D-55-B01-2

Lab Sample ID: 500-60580-22

Date Collected: 08/06/13 11:10

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-6

Client Sample ID: 846D-55-B01-2

Lab Sample ID: 500-60580-22

Date Collected: 08/06/13 11:10

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/13/13 17:11	08/20/13 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	45		30 - 110	08/13/13 17:11	08/20/13 20:36	1
Phenol-d5	45		31 - 110	08/13/13 17:11	08/20/13 20:36	1
Nitrobenzene-d5	46		30 - 115	08/13/13 17:11	08/20/13 20:36	1
2-Fluorobiphenyl	48		30 - 119	08/13/13 17:11	08/20/13 20:36	1
2,4,6-Tribromophenol	48		35 - 137	08/13/13 17:11	08/20/13 20:36	1
Terphenyl-d14	72		36 - 134	08/13/13 17:11	08/20/13 20:36	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00079	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
alpha-Chlordane	<0.0019		0.0019	0.00096	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
beta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
Endosulfan I	<0.0019	*	0.0019	0.00083	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
gamma-Chlordane	<0.0019		0.0019	0.00050	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
Heptachlor	<0.0019		0.0019	0.00080	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
Methoxychlor	<0.0094		0.0094	0.00037	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1
Toxaphene	<0.019		0.019	0.0080	mg/Kg	☼	08/14/13 21:12	08/16/13 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	72		56 - 128	08/14/13 21:12	08/16/13 22:45	1
Tetrachloro-m-xylene	48		45 - 112	08/14/13 21:12	08/16/13 22:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-6

Client Sample ID: 846D-55-B01-2

Lab Sample ID: 500-60580-22

Date Collected: 08/06/13 11:10

Matrix: Solid

Date Received: 08/06/13 16:00

Percent Solids: 87.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Arsenic	8.3		0.55	0.11	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Barium	28		0.55	0.059	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Beryllium	0.42		0.22	0.019	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Boron	8.1		2.8	0.12	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Cadmium	0.26		0.11	0.014	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Calcium	75000	B	110	30	mg/Kg	☼	08/09/13 14:00	08/29/13 00:57	10
Chromium	12		0.55	0.064	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Cobalt	12		0.28	0.020	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Copper	24		0.55	0.049	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Iron	17000	B	11	4.5	mg/Kg	☼	08/09/13 14:00	08/29/13 00:50	1
Lead	15		0.28	0.082	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Magnesium	33000	B	5.5	1.1	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Manganese	360	B	0.55	0.030	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Nickel	28		0.55	0.054	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Potassium	1700	B	28	1.7	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Selenium	0.51	J	0.55	0.20	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Sodium	220	B	55	7.4	mg/Kg	☼	08/09/13 14:00	08/29/13 00:50	1
Thallium	0.57		0.55	0.23	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Vanadium	15		0.28	0.041	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Zinc	67	B	1.1	0.22	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1
Aluminum	7100	B	11	1.0	mg/Kg	☼	08/09/13 14:00	08/18/13 15:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/10/13 08:30	09/11/13 04:01	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/10/13 08:30	09/11/13 04:01	1
Manganese	0.65		0.025	0.010	mg/L		09/10/13 08:30	09/11/13 04:01	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.80		0.50	0.010	mg/L		08/14/13 12:00	08/16/13 18:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/14/13 12:00	08/16/13 18:07	1
Boron	1.1		0.10	0.050	mg/L		08/14/13 12:00	08/16/13 18:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/14/13 12:00	08/16/13 18:07	1
Chromium	0.060		0.025	0.010	mg/L		08/14/13 12:00	08/16/13 18:07	1
Cobalt	0.027		0.025	0.0050	mg/L		08/14/13 12:00	08/16/13 18:07	1
Iron	73		0.20	0.20	mg/L		08/14/13 12:00	08/16/13 18:07	1
Lead	0.038		0.0075	0.0050	mg/L		08/14/13 12:00	08/16/13 18:07	1
Manganese	0.32		0.025	0.010	mg/L		08/14/13 12:00	08/16/13 18:07	1
Nickel	0.085		0.025	0.010	mg/L		08/14/13 12:00	08/16/13 18:07	1
Selenium	<0.050		0.050	0.010	mg/L		08/14/13 12:00	08/16/13 18:07	1
Silver	<0.025		0.025	0.0050	mg/L		08/14/13 12:00	08/16/13 18:07	1
Zinc	0.73		0.10	0.020	mg/L		08/14/13 12:00	08/16/13 18:07	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/10/13 08:30	09/11/13 12:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-6

Client Sample ID: 846D-55-B01-2

Lab Sample ID: 500-60580-22

Date Collected: 08/06/13 11:10

Matrix: Solid

Date Received: 08/06/13 16:00

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/14/13 12:00	08/15/13 19:24	1
Thallium	0.0025		0.0020	0.0020	mg/L		08/14/13 12:00	08/15/13 19:24	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.000020	mg/L		08/14/13 15:00	08/15/13 11:19	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032	B	0.017	0.0079	mg/Kg	☼	08/12/13 15:00	08/13/13 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17		0.200	0.200	SU			08/17/13 15:19	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60580-6

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US6/IL7 Will & Cook Co. Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: AKI	COC No.: 1 of 1 Lab Job No.: 500-60580 Sample Temp: 3,6,39,37 Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
21	840D-55-B01-1	8/6/13	11:05	S	X	X			X		X	X	X	X		0-5'
22	840D-55-B01-2		11:10	S	X	X			X		X	X	X	X		5-10'
23	840D-55-B02-1		10:30	S	X	X			X		X	X	X	X		0-5'
24	840D-55-B02-2	↑	10:35	S	X	X			X		X	X	X	X		5-10'
					Date/Time	3:14			Received by:				Date/Time			
					Date/Time	8/6/13			Received by:				Date/Time			
					Date/Time	8/6/13			Received by:				Date/Time			



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Approximately 13752 to 11414 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59952 Longitude: -87.95686
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59952 Longitude: -87.95686

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-56-B01, -B03 AND -B04 WERE SAMPLED ADJACENT TO SITE NO. 846D-56. SEE FIGURES 11 & 12, AND TABLE 3at OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-62485-2

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

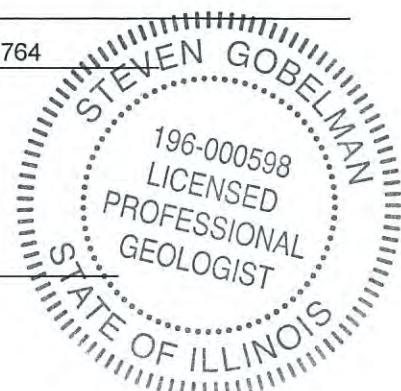
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/10/14

Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-56

Vacant Area

Sample ID	846D-56-B01-1	846D-56-B01-2	846D-56-B03-1										
Sample Depth (ft)	0-4.5	4.5-9	0-4.5										
Sample Date	9/5/2013	9/5/2013	9/5/2013										
PID	0	0	0										
Sample pH	8.53	8.75	7.28										
Matrix	Soil	Soil	Soil										

Semivolatile Organic Compounds (mg/kg)

Benzo(a)pyrene	ND	ND	0.045										
----------------	----	----	--------------	--	--	--	--	--	--	--	--	--	--

Inorganic Compounds, Total (mg/kg)

Arsenic	6.6	13	1.3	5.7									
---------	------------	-----------	------------	------------	--	--	--	--	--	--	--	--	--

Sample ID	846D-56-B03-2	846D-56-B04-1	846D-56-B04-2										
Sample Depth (ft)	4.5-9	0-4.5	4.5-9										
Sample Date	9/5/2013	9/5/2013	9/5/2013										
PID	0	0	0										
Sample pH	8.57	8.44	7.55										
Matrix	Soil	Soil	Soil										

Semivolatile Organic Compounds (mg/kg)

Benzo(a)pyrene	ND	0.072	0.11	1.2									
----------------	----	--------------	-------------	------------	--	--	--	--	--	--	--	--	--

Inorganic Compounds, Total (mg/kg)

Arsenic	8	4.6	5.1										
---------	----------	------------	------------	--	--	--	--	--	--	--	--	--	--

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62485-2
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/26/2013 9:58:10 AM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B01-1

Lab Sample ID: 500-62485-3

Date Collected: 09/05/13 11:50

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 83.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	09/05/13 11:50	09/09/13 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/05/13 11:50	09/09/13 12:23	1
Dibromofluoromethane	99		75 - 120	09/05/13 11:50	09/09/13 12:23	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	09/05/13 11:50	09/09/13 12:23	1
Toluene-d8 (Surr)	97		75 - 122	09/05/13 11:50	09/09/13 12:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B01-1

Lab Sample ID: 500-62485-3

Date Collected: 09/05/13 11:50

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
2,4-Dimethylphenol	<0.38	*	0.38	0.12	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Hexachlorocyclopentadiene	<0.78	*	0.78	0.18	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Dibenzofuran	<0.19		0.19	0.047	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
4-Nitrophenol	<0.78	*	0.78	0.21	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Pentachlorophenol	<0.78	*	0.78	0.20	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B01-1

Lab Sample ID: 500-62485-3

Date Collected: 09/05/13 11:50

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Benzo[a]pyrene	<0.038		0.038	0.0071	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	09/16/13 07:41	09/19/13 01:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		25 - 110				09/16/13 07:41	09/19/13 01:00	1
Phenol-d5	91		31 - 110				09/16/13 07:41	09/19/13 01:00	1
Nitrobenzene-d5	73		25 - 115				09/16/13 07:41	09/19/13 01:00	1
2-Fluorobiphenyl	79		25 - 119				09/16/13 07:41	09/19/13 01:00	1
2,4,6-Tribromophenol	94		35 - 137				09/16/13 07:41	09/19/13 01:00	1
Terphenyl-d14	137	X	36 - 134				09/16/13 07:41	09/19/13 01:00	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00080	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
alpha-Chlordane	<0.0020		0.0020	0.00098	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
Endosulfan I	<0.0020		0.0020	0.00085	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
Endosulfan II	<0.0020		0.0020	0.00031	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
Heptachlor	<0.0020		0.0020	0.00081	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
Methoxychlor	<0.0096		0.0096	0.00038	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
Toxaphene	<0.019		0.019	0.0082	mg/Kg	☼	09/13/13 20:23	09/18/13 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		56 - 128				09/13/13 20:23	09/18/13 22:22	1
Tetrachloro-m-xylene	57		45 - 112				09/13/13 20:23	09/18/13 22:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B01-1

Lab Sample ID: 500-62485-3

Date Collected: 09/05/13 11:50

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 83.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		12	1.1	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Arsenic	6.6		0.58	0.12	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Barium	58		0.58	0.062	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Beryllium	0.76		0.23	0.021	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Boron	4.0		2.9	0.12	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Cadmium	0.50		0.12	0.015	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Calcium	9100	B	12	3.2	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Chromium	17		0.58	0.068	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Cobalt	7.7		0.29	0.021	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Copper	24	B	0.58	0.052	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Iron	23000		12	4.8	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Lead	16	B	0.29	0.087	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Magnesium	6700	B	5.8	1.2	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Manganese	180	B	0.58	0.032	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Nickel	23	B	0.58	0.057	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Potassium	1000		29	1.8	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Selenium	1.3		0.58	0.21	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Sodium	110	B	58	7.8	mg/Kg	☼	09/09/13 10:30	09/18/13 21:10	1
Thallium	0.50	J	0.58	0.25	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Vanadium	22		0.29	0.043	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1
Zinc	66	B	1.2	0.24	mg/Kg	☼	09/09/13 10:30	09/17/13 18:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.20		0.20	0.20	mg/L		09/19/13 09:00	09/20/13 03:21	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.81	B	0.50	0.010	mg/L		09/09/13 08:15	09/12/13 17:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/13 08:15	09/12/13 17:50	1
Boron	1.1	B	0.10	0.050	mg/L		09/09/13 08:15	09/12/13 17:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/13 08:15	09/12/13 17:50	1
Chromium	0.010	J	0.025	0.010	mg/L		09/09/13 08:15	09/12/13 17:50	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 17:50	1
Iron	6.4		0.20	0.20	mg/L		09/09/13 08:15	09/12/13 17:50	1
Lead	0.0052	J	0.0075	0.0050	mg/L		09/09/13 08:15	09/12/13 17:50	1
Manganese	0.027		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 17:50	1
Nickel	0.010	J	0.025	0.010	mg/L		09/09/13 08:15	09/12/13 17:50	1
Selenium	<0.050		0.050	0.010	mg/L		09/09/13 08:15	09/12/13 17:50	1
Silver	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 17:50	1
Zinc	0.58	B	0.10	0.020	mg/L		09/09/13 08:15	09/12/13 17:50	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/09/13 08:15	09/11/13 17:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/13 08:15	09/11/13 17:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B01-1

Lab Sample ID: 500-62485-3

Date Collected: 09/05/13 11:50

Matrix: Solid

Date Received: 09/06/13 06:15

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 10:22	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.018	0.0082	mg/Kg	☼	09/06/13 14:30	09/09/13 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.53		0.200	0.200	SU			09/16/13 13:13	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B01-2

Lab Sample ID: 500-62485-4

Date Collected: 09/05/13 11:55

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0039		0.0039	0.0017	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Benzene	<0.0039		0.0039	0.00053	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Bromodichloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Bromoform	<0.0039		0.0039	0.00089	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Bromomethane	<0.0039		0.0039	0.0012	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Carbon disulfide	<0.0039		0.0039	0.00058	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Carbon tetrachloride	<0.0039		0.0039	0.00070	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Chlorobenzene	<0.0039		0.0039	0.00039	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Chloroform	<0.0039		0.0039	0.00044	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Chloromethane	<0.0039		0.0039	0.00081	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00055	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00051	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Dibromochloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
1,1-Dichloroethane	<0.0039		0.0039	0.00061	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
1,2-Dichloroethane	<0.0039		0.0039	0.00057	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
1,1-Dichloroethene	<0.0039		0.0039	0.00062	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
1,2-Dichloropropane	<0.0039		0.0039	0.00059	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.00051	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Ethylbenzene	<0.0039		0.0039	0.00078	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
2-Hexanone	<0.0039		0.0039	0.0011	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Methylene Chloride	<0.0039		0.0039	0.0010	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0010	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00064	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Styrene	<0.0039		0.0039	0.00051	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
1,1,1,2-Tetrachloroethane	<0.0039		0.0039	0.00078	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Tetrachloroethene	<0.0039		0.0039	0.00059	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Toluene	<0.0039		0.0039	0.00054	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00053	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.00069	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00053	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Trichloroethene	<0.0039		0.0039	0.00064	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Vinyl acetate	<0.0039		0.0039	0.00061	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Vinyl chloride	<0.0039		0.0039	0.00081	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1
Xylenes, Total	<0.0077		0.0077	0.00035	mg/Kg	☼	09/05/13 11:55	09/09/13 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/05/13 11:55	09/09/13 12:46	1
Dibromofluoromethane	96		75 - 120	09/05/13 11:55	09/09/13 12:46	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/05/13 11:55	09/09/13 12:46	1
Toluene-d8 (Surr)	100		75 - 122	09/05/13 11:55	09/09/13 12:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B01-2

Lab Sample ID: 500-62485-4

Date Collected: 09/05/13 11:55

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
2,4-Dimethylphenol	<0.36	*	0.36	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Hexachlorocyclopentadiene	<0.72	*	0.72	0.17	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Acenaphthylene	<0.036		0.036	0.0082	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
4-Nitrophenol	<0.72	*	0.72	0.19	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Fluorene	<0.036		0.036	0.0081	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
4-Nitroaniline	<0.36		0.36	0.073	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Hexachlorobenzene	<0.072		0.072	0.0071	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Pentachlorophenol	<0.72	*	0.72	0.18	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Anthracene	<0.036		0.036	0.0084	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Benzo[a]anthracene	<0.036		0.036	0.0075	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B01-2

Lab Sample ID: 500-62485-4

Date Collected: 09/05/13 11:55

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.036	0.0081	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Benzo[k]fluoranthene	<0.036		0.036	0.0085	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Benzo[a]pyrene	<0.036		0.036	0.0065	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	09/16/13 07:41	09/19/13 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		25 - 110	09/16/13 07:41	09/19/13 01:21	1
Phenol-d5	91		31 - 110	09/16/13 07:41	09/19/13 01:21	1
Nitrobenzene-d5	77		25 - 115	09/16/13 07:41	09/19/13 01:21	1
2-Fluorobiphenyl	82		25 - 119	09/16/13 07:41	09/19/13 01:21	1
2,4,6-Tribromophenol	86		35 - 137	09/16/13 07:41	09/19/13 01:21	1
Terphenyl-d14	128		36 - 134	09/16/13 07:41	09/19/13 01:21	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
beta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
4,4'-DDT	<0.0019		0.0019	0.00097	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
delta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
Endosulfan I	<0.0019		0.0019	0.00081	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
Methoxychlor	<0.0092		0.0092	0.00036	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1
Toxaphene	<0.018		0.018	0.0078	mg/Kg	☼	09/13/13 20:23	09/18/13 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	56		56 - 128	09/13/13 20:23	09/18/13 22:41	1
Tetrachloro-m-xylene	53		45 - 112	09/13/13 20:23	09/18/13 22:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B01-2

Lab Sample ID: 500-62485-4

Date Collected: 09/05/13 11:55

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 87.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5400		11	1.0	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Arsenic	13		0.55	0.11	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Barium	24		0.55	0.059	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Beryllium	0.46		0.22	0.020	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Boron	6.5		2.8	0.12	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Cadmium	0.58		0.11	0.014	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Calcium	68000	B	110	30	mg/Kg	☼	09/09/13 10:30	09/18/13 21:15	10
Chromium	10		0.55	0.064	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Cobalt	8.4		0.28	0.020	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Copper	24	B	0.55	0.049	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Iron	24000		11	4.5	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Lead	15	B	0.28	0.082	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Magnesium	26000	B	5.5	1.1	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Manganese	330	B	0.55	0.030	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Nickel	21	B	0.55	0.054	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Potassium	1300		28	1.7	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Selenium	1.1		0.55	0.20	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Sodium	100	B	55	7.4	mg/Kg	☼	09/09/13 10:30	09/20/13 12:36	1
Thallium	0.65		0.55	0.23	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Vanadium	14		0.28	0.041	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1
Zinc	49	B	1.1	0.22	mg/Kg	☼	09/09/13 10:30	09/17/13 18:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.20		0.20	0.20	mg/L		09/19/13 09:00	09/20/13 03:27	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61	B	0.50	0.010	mg/L		09/09/13 08:15	09/12/13 17:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/13 08:15	09/12/13 17:53	1
Boron	0.85	B	0.10	0.050	mg/L		09/09/13 08:15	09/12/13 17:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/13 08:15	09/12/13 17:53	1
Chromium	0.016	J	0.025	0.010	mg/L		09/09/13 08:15	09/12/13 17:53	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 17:53	1
Iron	12		0.20	0.20	mg/L		09/09/13 08:15	09/12/13 17:53	1
Lead	0.0067	J	0.0075	0.0050	mg/L		09/09/13 08:15	09/12/13 17:53	1
Manganese	0.078		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 17:53	1
Nickel	0.015	J	0.025	0.010	mg/L		09/09/13 08:15	09/12/13 17:53	1
Selenium	<0.050		0.050	0.010	mg/L		09/09/13 08:15	09/12/13 17:53	1
Silver	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 17:53	1
Zinc	0.47	B	0.10	0.020	mg/L		09/09/13 08:15	09/12/13 17:53	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/09/13 08:15	09/11/13 17:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/13 08:15	09/11/13 17:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B01-2

Lab Sample ID: 500-62485-4

Date Collected: 09/05/13 11:55

Matrix: Solid

Date Received: 09/06/13 06:15

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000023	J	0.00020	0.000020	mg/L	—	09/09/13 14:45	09/10/13 10:24	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0090	mg/Kg	☼	09/06/13 14:30	09/09/13 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.75		0.200	0.200	SU	—		09/16/13 13:15	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B03-1

Lab Sample ID: 500-62485-8

Date Collected: 09/05/13 11:10

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 77.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
1,1,1-Dichloroethane	<0.0049		0.0049	0.00080	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	09/05/13 11:10	09/09/13 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/05/13 11:10	09/09/13 14:17	1
Dibromofluoromethane	101		75 - 120	09/05/13 11:10	09/09/13 14:17	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	09/05/13 11:10	09/09/13 14:17	1
Toluene-d8 (Surr)	97		75 - 122	09/05/13 11:10	09/09/13 14:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.065	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B03-1

Lab Sample ID: 500-62485-8

Date Collected: 09/05/13 11:10

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 77.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
2,4-Dimethylphenol	<0.41	*	0.41	0.13	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
4-Chloroaniline	<0.83		0.83	0.13	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Hexachlorocyclopentadiene	<0.83	*	0.83	0.19	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Acenaphthylene	<0.041		0.041	0.0095	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
4-Nitrophenol	<0.83	*	0.83	0.22	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Fluorene	<0.041		0.041	0.0094	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Pentachlorophenol	<0.83	*	0.83	0.21	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Phenanthrene	0.034	J	0.041	0.017	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Fluoranthene	0.062		0.041	0.017	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Pyrene	0.053		0.041	0.015	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Benzo[a]anthracene	0.038	J	0.041	0.0086	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B03-1

Lab Sample ID: 500-62485-8

Date Collected: 09/05/13 11:10

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 77.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.074		0.041	0.0093	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Di-n-octyl phthalate	<0.21		0.21	0.084	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Benzo[b]fluoranthene	0.080		0.041	0.0080	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Benzo[k]fluoranthene	0.030 J		0.041	0.0098	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Benzo[a]pyrene	0.045		0.041	0.0075	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Indeno[1,2,3-cd]pyrene	0.027 J		0.041	0.014	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Dibenz(a,h)anthracene	0.021 J		0.041	0.012	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Benzo[g,h,i]perylene	0.038 J		0.041	0.014	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	09/16/13 07:41	09/20/13 03:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		25 - 110				09/16/13 07:41	09/20/13 03:44	1
Phenol-d5	63		31 - 110				09/16/13 07:41	09/20/13 03:44	1
Nitrobenzene-d5	46		25 - 115				09/16/13 07:41	09/20/13 03:44	1
2-Fluorobiphenyl	56		25 - 119				09/16/13 07:41	09/20/13 03:44	1
2,4,6-Tribromophenol	73		35 - 137				09/16/13 07:41	09/20/13 03:44	1
Terphenyl-d14	77		36 - 134				09/16/13 07:41	09/20/13 03:44	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0052		0.0022	0.00088	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
alpha-BHC	<0.0022		0.0022	0.00054	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
alpha-Chlordane	0.0066		0.0022	0.0011	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
beta-BHC	<0.0022		0.0022	0.00066	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
4,4'-DDD	<0.0022		0.0022	0.00042	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
4,4'-DDE	0.0013 J		0.0022	0.00035	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
4,4'-DDT	<0.0022		0.0022	0.0011	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
delta-BHC	<0.0022		0.0022	0.00067	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
Endosulfan I	<0.0022		0.0022	0.00093	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
Endosulfan II	<0.0022		0.0022	0.00035	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
Endosulfan sulfate	<0.0022		0.0022	0.00039	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
Endrin	<0.0022		0.0022	0.00029	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
Endrin aldehyde	<0.0022		0.0022	0.00036	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
Endrin ketone	<0.0022		0.0022	0.00048	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
gamma-BHC (Lindane)	<0.0022		0.0022	0.00046	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
gamma-Chlordane	0.0064		0.0022	0.00056	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
Heptachlor	<0.0022		0.0022	0.00089	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
Heptachlor epoxide	0.0013 J		0.0022	0.00076	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
Methoxychlor	<0.011		0.011	0.00041	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
Toxaphene	<0.021		0.021	0.0090	mg/Kg	☼	09/13/13 20:23	09/19/13 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		56 - 128				09/13/13 20:23	09/19/13 01:38	1
Tetrachloro-m-xylene	57		45 - 112				09/13/13 20:23	09/19/13 01:38	1

Method: 8081B - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.19		0.011	0.0015	mg/Kg	☼	09/13/13 20:23	09/19/13 12:40	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B03-1

Lab Sample ID: 500-62485-8

Date Collected: 09/05/13 11:10

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 77.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		13	1.2	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Antimony	<1.3		1.3	0.51	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Arsenic	5.7		0.64	0.13	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Barium	96		0.64	0.068	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Beryllium	0.86		0.26	0.023	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Boron	4.7		3.2	0.13	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Cadmium	0.85		0.13	0.016	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Calcium	6100	B	13	3.5	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Chromium	17		0.64	0.074	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Cobalt	6.8		0.32	0.023	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Copper	34	B	0.64	0.057	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Iron	15000		13	5.3	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Lead	55	B	0.32	0.095	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Magnesium	4000	B	6.4	1.3	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Manganese	220	B	0.64	0.035	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Nickel	21	B	0.64	0.063	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Potassium	1600		32	1.9	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Selenium	1.2		0.64	0.23	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Sodium	350	B	64	8.6	mg/Kg	☼	09/09/13 10:30	09/18/13 21:40	1
Thallium	0.44	J	0.64	0.27	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Vanadium	22		0.32	0.047	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1
Zinc	98	B	1.3	0.26	mg/Kg	☼	09/09/13 10:30	09/17/13 18:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.47		0.20	0.20	mg/L		09/19/13 09:00	09/20/13 03:47	1
Lead	0.010		0.0075	0.0050	mg/L		09/19/13 09:00	09/20/13 03:47	1
Manganese	4.7		0.025	0.010	mg/L		09/19/13 09:00	09/20/13 03:47	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.90	B	0.50	0.010	mg/L		09/09/13 08:15	09/12/13 18:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/13 08:15	09/12/13 18:09	1
Boron	1.2	B	0.10	0.050	mg/L		09/09/13 08:15	09/12/13 18:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/13 08:15	09/12/13 18:09	1
Chromium	0.023	J	0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:09	1
Cobalt	0.0054	J	0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:09	1
Iron	15		0.20	0.20	mg/L		09/09/13 08:15	09/12/13 18:09	1
Lead	0.034		0.0075	0.0050	mg/L		09/09/13 08:15	09/12/13 18:09	1
Manganese	0.25		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:09	1
Nickel	0.021	J	0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:09	1
Selenium	<0.050		0.050	0.010	mg/L		09/09/13 08:15	09/12/13 18:09	1
Silver	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:09	1
Zinc	0.72	B	0.10	0.020	mg/L		09/09/13 08:15	09/12/13 18:09	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/09/13 08:15	09/11/13 17:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/13 08:15	09/11/13 17:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B03-1

Lab Sample ID: 500-62485-8

Date Collected: 09/05/13 11:10

Matrix: Solid

Date Received: 09/06/13 06:15

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000031	J	0.00020	0.000020	mg/L	—	09/09/13 14:45	09/10/13 10:36	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.068		0.019	0.0090	mg/Kg	☼	09/06/13 14:30	09/09/13 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.28		0.200	0.200	SU	—		09/16/13 13:24	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B03-2

Lab Sample ID: 500-62485-9

Date Collected: 09/05/13 11:15

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 76.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.038		0.0061	0.0027	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Benzene	<0.0061		0.0061	0.00084	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Bromodichloromethane	<0.0061		0.0061	0.0011	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Bromoform	<0.0061		0.0061	0.0014	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Bromomethane	<0.0061		0.0061	0.0019	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
2-Butanone (MEK)	0.0074		0.0061	0.0022	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Carbon disulfide	<0.0061		0.0061	0.00092	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Carbon tetrachloride	<0.0061		0.0061	0.0011	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Chlorobenzene	<0.0061		0.0061	0.00062	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Chloroethane	<0.0061		0.0061	0.0017	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Chloroform	<0.0061		0.0061	0.00071	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Chloromethane	<0.0061		0.0061	0.0013	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
cis-1,2-Dichloroethene	<0.0061		0.0061	0.00087	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
cis-1,3-Dichloropropene	<0.0061		0.0061	0.00081	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Dibromochloromethane	<0.0061		0.0061	0.0011	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
1,1-Dichloroethane	<0.0061		0.0061	0.00097	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
1,2-Dichloroethane	<0.0061		0.0061	0.00091	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
1,1,1-Dichloroethane	<0.0061		0.0061	0.00099	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
1,2-Dichloropropane	<0.0061		0.0061	0.00093	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
1,3-Dichloropropene, Total	<0.0061		0.0061	0.00081	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Ethylbenzene	<0.0061		0.0061	0.0012	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
2-Hexanone	<0.0061		0.0061	0.0018	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Methylene Chloride	<0.0061		0.0061	0.0017	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
4-Methyl-2-pentanone (MIBK)	<0.0061		0.0061	0.0016	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Methyl tert-butyl ether	<0.0061		0.0061	0.0010	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Styrene	<0.0061		0.0061	0.00081	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
1,1,1,2-Tetrachloroethane	<0.0061		0.0061	0.0012	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Tetrachloroethene	<0.0061		0.0061	0.00094	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Toluene	<0.0061		0.0061	0.00086	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
trans-1,2-Dichloroethene	<0.0061		0.0061	0.00085	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
trans-1,3-Dichloropropene	<0.0061		0.0061	0.0011	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
1,1,1-Trichloroethane	<0.0061		0.0061	0.00092	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
1,1,2-Trichloroethane	<0.0061		0.0061	0.00084	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Trichloroethene	<0.0061		0.0061	0.0010	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Vinyl acetate	<0.0061		0.0061	0.00097	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Vinyl chloride	<0.0061		0.0061	0.0013	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1
Xylenes, Total	<0.012		0.012	0.00056	mg/Kg	☼	09/05/13 11:15	09/09/13 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	09/05/13 11:15	09/09/13 14:40	1
Dibromofluoromethane	100		75 - 120	09/05/13 11:15	09/09/13 14:40	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/05/13 11:15	09/09/13 14:40	1
Toluene-d8 (Surr)	99		75 - 122	09/05/13 11:15	09/09/13 14:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.067	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B03-2

Lab Sample ID: 500-62485-9

Date Collected: 09/05/13 11:15

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 76.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
2-Methylphenol	<0.21		0.21	0.056	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.054	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.047	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
2,4-Dimethylphenol	<0.42	*	0.42	0.13	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Naphthalene	<0.042		0.042	0.0081	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
4-Chloroaniline	<0.85		0.85	0.13	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
2,4,6-Trichlorophenol	<0.42		0.42	0.053	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Hexachlorocyclopentadiene	<0.85	*	0.85	0.20	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
2-Methylnaphthalene	<0.21		0.21	0.055	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
2-Nitroaniline	<0.21		0.21	0.076	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
2-Nitrophenol	<0.42		0.42	0.066	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
3-Nitroaniline	<0.42		0.42	0.081	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
2,4-Dinitrophenol	<0.85		0.85	0.22	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Acenaphthylene	<0.042		0.042	0.0097	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Dibenzofuran	<0.21		0.21	0.051	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
4-Nitrophenol	<0.85	*	0.85	0.23	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Fluorene	<0.042		0.042	0.0096	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
4-Nitroaniline	<0.42		0.42	0.086	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Hexachlorobenzene	<0.085		0.085	0.0083	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Pentachlorophenol	<0.85	*	0.85	0.21	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Phenanthrene	<0.042		0.042	0.018	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Anthracene	<0.042		0.042	0.0099	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Fluoranthene	<0.042		0.042	0.017	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Pyrene	<0.042		0.042	0.015	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Butyl benzyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Benzo[a]anthracene	<0.042		0.042	0.0088	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B03-2

Lab Sample ID: 500-62485-9

Date Collected: 09/05/13 11:15

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 76.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.0095	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.056	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Di-n-octyl phthalate	<0.21		0.21	0.085	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Benzo[b]fluoranthene	<0.042		0.042	0.0082	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Benzo[k]fluoranthene	<0.042		0.042	0.010	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Benzo[a]pyrene	<0.042		0.042	0.0077	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.014	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Dibenz(a,h)anthracene	<0.042		0.042	0.012	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1
3 & 4 Methylphenol	<0.21		0.21	0.080	mg/Kg	☼	09/16/13 07:41	09/19/13 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		25 - 110	09/16/13 07:41	09/19/13 03:05	1
Phenol-d5	98		31 - 110	09/16/13 07:41	09/19/13 03:05	1
Nitrobenzene-d5	79		25 - 115	09/16/13 07:41	09/19/13 03:05	1
2-Fluorobiphenyl	89		25 - 119	09/16/13 07:41	09/19/13 03:05	1
2,4,6-Tribromophenol	103		35 - 137	09/16/13 07:41	09/19/13 03:05	1
Terphenyl-d14	136 X		36 - 134	09/16/13 07:41	09/19/13 03:05	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00085	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
alpha-BHC	<0.0021		0.0021	0.00052	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
alpha-Chlordane	<0.0021		0.0021	0.0010	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
beta-BHC	<0.0021		0.0021	0.00064	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
4,4'-DDD	<0.0021		0.0021	0.00041	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
4,4'-DDE	<0.0021		0.0021	0.00034	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
delta-BHC	<0.0021		0.0021	0.00065	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
Dieldrin	<0.0021		0.0021	0.00028	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
Endosulfan I	<0.0021		0.0021	0.00090	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
Endosulfan II	<0.0021		0.0021	0.00033	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
Endosulfan sulfate	<0.0021		0.0021	0.00038	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
Endrin	<0.0021		0.0021	0.00028	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
Endrin aldehyde	<0.0021		0.0021	0.00035	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
Endrin ketone	<0.0021		0.0021	0.00047	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
gamma-BHC (Lindane)	<0.0021		0.0021	0.00045	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
gamma-Chlordane	<0.0021		0.0021	0.00054	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
Heptachlor	<0.0021		0.0021	0.00086	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
Heptachlor epoxide	<0.0021		0.0021	0.00073	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
Methoxychlor	<0.010		0.010	0.00040	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1
Toxaphene	<0.021		0.021	0.0087	mg/Kg	☼	09/13/13 20:23	09/19/13 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		56 - 128	09/13/13 20:23	09/19/13 01:57	1
Tetrachloro-m-xylene	51		45 - 112	09/13/13 20:23	09/19/13 01:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B03-2

Lab Sample ID: 500-62485-9

Date Collected: 09/05/13 11:15

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 76.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6100		12	1.1	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Antimony	<1.2		1.2	0.48	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Arsenic	8.0		0.60	0.12	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Barium	58		0.60	0.064	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Beryllium	0.55		0.24	0.021	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Boron	4.1		3.0	0.13	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Cadmium	0.36		0.12	0.015	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Calcium	29000	B	12	3.3	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Chromium	12		0.60	0.070	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Cobalt	12		0.30	0.021	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Copper	22	B	0.60	0.053	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Iron	12000		12	4.9	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Lead	14	B	0.30	0.090	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Magnesium	18000	B	6.0	1.2	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Manganese	240	B	0.60	0.033	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Nickel	23	B	0.60	0.059	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Potassium	1100		30	1.8	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Selenium	0.76		0.60	0.21	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Sodium	380	B	60	8.1	mg/Kg	☼	09/09/13 10:30	09/18/13 21:45	1
Thallium	0.75		0.60	0.25	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Vanadium	18		0.30	0.045	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1
Zinc	56	B	1.2	0.24	mg/Kg	☼	09/09/13 10:30	09/17/13 19:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.30		0.20	0.20	mg/L		09/19/13 09:00	09/20/13 03:52	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/19/13 09:00	09/20/13 03:52	1
Manganese	4.2		0.025	0.010	mg/L		09/19/13 09:00	09/20/13 03:52	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.99	B	0.50	0.010	mg/L		09/09/13 08:15	09/12/13 18:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/13 08:15	09/12/13 18:13	1
Boron	1.2	B	0.10	0.050	mg/L		09/09/13 08:15	09/12/13 18:13	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		09/09/13 08:15	09/12/13 18:13	1
Chromium	0.056		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:13	1
Cobalt	0.044		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:13	1
Iron	54		0.20	0.20	mg/L		09/09/13 08:15	09/12/13 18:13	1
Lead	0.090		0.0075	0.0050	mg/L		09/09/13 08:15	09/12/13 18:13	1
Manganese	0.47		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:13	1
Nickel	0.078		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:13	1
Selenium	<0.050		0.050	0.010	mg/L		09/09/13 08:15	09/12/13 18:13	1
Silver	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:13	1
Zinc	0.92	B	0.10	0.020	mg/L		09/09/13 08:15	09/12/13 18:13	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/09/13 08:15	09/11/13 17:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/13 08:15	09/11/13 17:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B03-2

Lab Sample ID: 500-62485-9

Date Collected: 09/05/13 11:15

Matrix: Solid

Date Received: 09/06/13 06:15

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000077	J	0.00020	0.000020	mg/L	—	09/09/13 14:45	09/10/13 10:38	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0092	mg/Kg	☼	09/06/13 14:30	09/09/13 10:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.57		0.200	0.200	SU	—		09/16/13 13:27	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B04-1

Lab Sample ID: 500-62485-10

Date Collected: 09/05/13 10:55

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.019		0.0045	0.0019	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Toluene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	09/05/13 10:55	09/09/13 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/05/13 10:55	09/09/13 15:03	1
Dibromofluoromethane	101		75 - 120	09/05/13 10:55	09/09/13 15:03	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/05/13 10:55	09/09/13 15:03	1
Toluene-d8 (Surr)	99		75 - 122	09/05/13 10:55	09/09/13 15:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B04-1

Lab Sample ID: 500-62485-10

Date Collected: 09/05/13 10:55

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
2,4-Dimethylphenol	<0.37	*	0.37	0.12	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Hexachlorocyclopentadiene	<0.74	*	0.74	0.17	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
2,4-Dinitrotoluene	<0.19		0.19	0.056	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
4-Nitrophenol	<0.74	*	0.74	0.20	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Diethyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Pentachlorophenol	<0.74	*	0.74	0.19	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Phenanthrene	0.060		0.037	0.015	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Anthracene	0.013	J	0.037	0.0087	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Di-n-butyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Fluoranthene	0.093		0.037	0.015	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Pyrene	0.10		0.037	0.013	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Benzo[a]anthracene	0.074		0.037	0.0077	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B04-1

Lab Sample ID: 500-62485-10

Date Collected: 09/05/13 10:55

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.14		0.037	0.0083	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Benzo[b]fluoranthene	0.098		0.037	0.0072	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Benzo[k]fluoranthene	0.042		0.037	0.0088	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Benzo[a]pyrene	0.072		0.037	0.0067	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Indeno[1,2,3-cd]pyrene	0.049		0.037	0.012	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Dibenz(a,h)anthracene	0.044		0.037	0.010	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
Benzo[g,h,i]perylene	0.098		0.037	0.012	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/16/13 07:41	09/20/13 04:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		25 - 110	09/16/13 07:41	09/20/13 04:06	1
Phenol-d5	70		31 - 110	09/16/13 07:41	09/20/13 04:06	1
Nitrobenzene-d5	51		25 - 115	09/16/13 07:41	09/20/13 04:06	1
2-Fluorobiphenyl	62		25 - 119	09/16/13 07:41	09/20/13 04:06	1
2,4,6-Tribromophenol	76		35 - 137	09/16/13 07:41	09/20/13 04:06	1
Terphenyl-d14	91		36 - 134	09/16/13 07:41	09/20/13 04:06	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0096		0.0096	0.0039	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
alpha-BHC	<0.0096		0.0096	0.0024	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
alpha-Chlordane	<0.0096		0.0096	0.0048	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
beta-BHC	<0.0096		0.0096	0.0029	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
4,4'-DDD	<0.0096		0.0096	0.0019	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
4,4'-DDE	<0.0096		0.0096	0.0016	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
4,4'-DDT	<0.0096		0.0096	0.0050	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
delta-BHC	<0.0096		0.0096	0.0030	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
Dieldrin	0.014		0.0096	0.0013	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
Endosulfan I	<0.0096		0.0096	0.0041	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
Endosulfan II	<0.0096		0.0096	0.0015	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
Endosulfan sulfate	<0.0096		0.0096	0.0017	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
Endrin	<0.0096		0.0096	0.0013	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
Endrin aldehyde	<0.0096		0.0096	0.0016	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
Endrin ketone	<0.0096		0.0096	0.0021	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
gamma-BHC (Lindane)	<0.0096		0.0096	0.0020	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
gamma-Chlordane	<0.0096		0.0096	0.0025	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
Heptachlor	<0.0096		0.0096	0.0039	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
Heptachlor epoxide	<0.0096		0.0096	0.0033	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
Methoxychlor	<0.047		0.047	0.0018	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5
Toxaphene	<0.094		0.094	0.040	mg/Kg	☼	09/13/13 20:23	09/19/13 02:17	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		56 - 128	09/13/13 20:23	09/19/13 02:17	5
Tetrachloro-m-xylene	68		45 - 112	09/13/13 20:23	09/19/13 02:17	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B04-1

Lab Sample ID: 500-62485-10

Date Collected: 09/05/13 10:55

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 85.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5800		11	1.0	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Arsenic	4.6		0.56	0.11	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Barium	42		0.56	0.060	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Beryllium	0.54		0.22	0.020	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Boron	7.1		2.8	0.12	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Cadmium	0.49		0.11	0.014	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Calcium	74000	B	110	30	mg/Kg	☼	09/09/13 10:30	09/18/13 21:50	10
Chromium	11		0.56	0.065	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Cobalt	5.2		0.28	0.020	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Copper	16	B	0.56	0.050	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Iron	12000		11	4.6	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Lead	59	B	0.28	0.084	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Magnesium	38000	B	5.6	1.2	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Manganese	280	B	0.56	0.031	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Nickel	13	B	0.56	0.055	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Potassium	1000		28	1.7	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Selenium	0.48	J	0.56	0.20	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Sodium	260	B	56	7.5	mg/Kg	☼	09/09/13 10:30	09/20/13 12:46	1
Thallium	0.43	J	0.56	0.24	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Vanadium	12		0.28	0.042	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1
Zinc	49	B	1.1	0.23	mg/Kg	☼	09/09/13 10:30	09/17/13 19:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.36		0.20	0.20	mg/L		09/19/13 09:00	09/20/13 03:57	1
Lead	0.075		0.0075	0.0050	mg/L		09/19/13 09:00	09/20/13 03:57	1
Manganese	4.5		0.025	0.010	mg/L		09/19/13 09:00	09/20/13 03:57	1
Nickel	0.031		0.025	0.010	mg/L		09/19/13 09:00	09/20/13 03:57	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1	B	0.50	0.010	mg/L		09/09/13 08:15	09/12/13 18:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/13 08:15	09/12/13 18:25	1
Boron	1.2	B	0.10	0.050	mg/L		09/09/13 08:15	09/12/13 18:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/13 08:15	09/12/13 18:25	1
Chromium	0.093		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:25	1
Cobalt	0.037		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:25	1
Iron	98		0.20	0.20	mg/L		09/09/13 08:15	09/12/13 18:25	1
Lead	0.11		0.0075	0.0050	mg/L		09/09/13 08:15	09/12/13 18:25	1
Manganese	0.55		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:25	1
Nickel	0.11		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:25	1
Selenium	<0.050		0.050	0.010	mg/L		09/09/13 08:15	09/12/13 18:25	1
Silver	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:25	1
Zinc	0.97	B	0.10	0.020	mg/L		09/09/13 08:15	09/12/13 18:25	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/09/13 08:15	09/11/13 17:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B04-1

Lab Sample ID: 500-62485-10

Date Collected: 09/05/13 10:55

Matrix: Solid

Date Received: 09/06/13 06:15

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/13 08:15	09/11/13 17:44	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J	0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 10:40	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0090	mg/Kg	✱	09/06/13 14:30	09/09/13 10:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.44		0.200	0.200	SU			09/16/13 13:29	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B04-2

Lab Sample ID: 500-62485-11

Date Collected: 09/05/13 11:00

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 76.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0023	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Benzene	<0.0052		0.0052	0.00072	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Bromodichloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Carbon tetrachloride	<0.0052		0.0052	0.00095	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00069	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Dibromochloromethane	<0.0052		0.0052	0.00091	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
1,1-Dichloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00069	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Ethylbenzene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Styrene	<0.0052		0.0052	0.00069	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Tetrachloroethene	<0.0052		0.0052	0.00080	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00072	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00094	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Vinyl acetate	<0.0052		0.0052	0.00082	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	09/05/13 11:00	09/09/13 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/05/13 11:00	09/09/13 15:26	1
Dibromofluoromethane	100		75 - 120	09/05/13 11:00	09/09/13 15:26	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/05/13 11:00	09/09/13 15:26	1
Toluene-d8 (Surr)	98		75 - 122	09/05/13 11:00	09/09/13 15:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.067	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B04-2

Lab Sample ID: 500-62485-11

Date Collected: 09/05/13 11:00

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 76.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
2-Methylphenol	<0.21		0.21	0.056	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.054	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.047	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
2,4-Dimethylphenol	<0.42	*	0.42	0.13	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Naphthalene	<0.042		0.042	0.0081	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
4-Chloroaniline	<0.85		0.85	0.13	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
2,4,6-Trichlorophenol	<0.42		0.42	0.053	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Hexachlorocyclopentadiene	<0.85	*	0.85	0.20	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
2-Methylnaphthalene	<0.21		0.21	0.055	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
2-Nitroaniline	<0.21		0.21	0.076	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
2-Nitrophenol	<0.42		0.42	0.066	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
3-Nitroaniline	<0.42		0.42	0.081	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
2,4-Dinitrophenol	<0.85		0.85	0.22	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Acenaphthylene	<0.042		0.042	0.0097	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Dibenzofuran	<0.21		0.21	0.051	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
4-Nitrophenol	<0.85	*	0.85	0.23	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Fluorene	<0.042		0.042	0.0096	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
4-Nitroaniline	<0.42		0.42	0.086	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Hexachlorobenzene	<0.085		0.085	0.0083	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Pentachlorophenol	<0.85	*	0.85	0.21	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Phenanthrene	0.10		0.042	0.018	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Anthracene	0.024	J	0.042	0.0099	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Fluoranthene	0.16		0.042	0.017	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Pyrene	0.18		0.042	0.015	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Butyl benzyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Benzo[a]anthracene	0.12		0.042	0.0088	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B04-2

Lab Sample ID: 500-62485-11

Date Collected: 09/05/13 11:00

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 76.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.20		0.042	0.0095	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Bis(2-ethylhexyl) phthalate	0.14	J	0.21	0.056	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Di-n-octyl phthalate	<0.21		0.21	0.085	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Benzo[b]fluoranthene	0.14		0.042	0.0082	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Benzo[k]fluoranthene	0.043		0.042	0.010	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Benzo[a]pyrene	0.11		0.042	0.0077	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Indeno[1,2,3-cd]pyrene	0.082		0.042	0.014	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Dibenz(a,h)anthracene	0.075		0.042	0.012	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
Benzo[g,h,i]perylene	0.16		0.042	0.014	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1
3 & 4 Methylphenol	<0.21		0.21	0.080	mg/Kg	☼	09/16/13 07:41	09/20/13 04:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		25 - 110	09/16/13 07:41	09/20/13 04:28	1
Phenol-d5	68		31 - 110	09/16/13 07:41	09/20/13 04:28	1
Nitrobenzene-d5	50		25 - 115	09/16/13 07:41	09/20/13 04:28	1
2-Fluorobiphenyl	62		25 - 119	09/16/13 07:41	09/20/13 04:28	1
2,4,6-Tribromophenol	78		35 - 137	09/16/13 07:41	09/20/13 04:28	1
Terphenyl-d14	116		36 - 134	09/16/13 07:41	09/20/13 04:28	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.011		0.011	0.0043	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
alpha-BHC	<0.011		0.011	0.0027	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
alpha-Chlordane	0.0068	J	0.011	0.0053	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
beta-BHC	<0.011		0.011	0.0032	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
4,4'-DDD	<0.011		0.011	0.0021	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
4,4'-DDE	<0.011		0.011	0.0017	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
4,4'-DDT	<0.011		0.011	0.0055	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
delta-BHC	<0.011		0.011	0.0033	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
Dieldrin	0.055		0.011	0.0014	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
Endosulfan I	<0.011		0.011	0.0046	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
Endosulfan II	<0.011		0.011	0.0017	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
Endosulfan sulfate	<0.011		0.011	0.0019	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
Endrin	<0.011		0.011	0.0014	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
Endrin aldehyde	<0.011		0.011	0.0018	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
Endrin ketone	<0.011		0.011	0.0024	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
gamma-BHC (Lindane)	<0.011		0.011	0.0023	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
gamma-Chlordane	0.0058	J	0.011	0.0027	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
Heptachlor	<0.011		0.011	0.0044	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
Heptachlor epoxide	<0.011		0.011	0.0037	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
Methoxychlor	<0.052		0.052	0.0020	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5
Toxaphene	<0.10		0.10	0.044	mg/Kg	☼	09/13/13 20:23	09/19/13 02:37	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		56 - 128	09/13/13 20:23	09/19/13 02:37	5
Tetrachloro-m-xylene	69		45 - 112	09/13/13 20:23	09/19/13 02:37	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B04-2

Lab Sample ID: 500-62485-11

Date Collected: 09/05/13 11:00

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 76.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8000		13	1.2	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Antimony	<1.3		1.3	0.51	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Arsenic	5.1		0.63	0.13	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Barium	67		0.63	0.068	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Beryllium	0.67		0.25	0.022	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Boron	4.9		3.2	0.13	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Cadmium	0.63		0.13	0.016	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Calcium	18000	B	13	3.4	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Chromium	13		0.63	0.074	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Cobalt	7.9		0.32	0.023	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Copper	26	B	0.63	0.056	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Iron	15000		13	5.2	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Lead	38	B	0.32	0.094	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Magnesium	9400	B	6.3	1.3	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Manganese	270	B	0.63	0.034	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Nickel	22	B	0.63	0.062	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Potassium	1200		32	1.9	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Selenium	1.3		0.63	0.23	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Silver	0.049	J	0.32	0.023	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Sodium	300	B	63	8.5	mg/Kg	☼	09/09/13 10:30	09/18/13 21:54	1
Thallium	0.50	J	0.63	0.27	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Vanadium	19		0.32	0.047	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1
Zinc	64	B	1.3	0.26	mg/Kg	☼	09/09/13 10:30	09/17/13 19:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.32		0.20	0.20	mg/L		09/19/13 09:00	09/20/13 04:02	1
Lead	0.0084		0.0075	0.0050	mg/L		09/19/13 09:00	09/20/13 04:02	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.97	B	0.50	0.010	mg/L		09/09/13 08:15	09/12/13 18:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/13 08:15	09/12/13 18:29	1
Boron	1.4	B	0.10	0.050	mg/L		09/09/13 08:15	09/12/13 18:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/13 08:15	09/12/13 18:29	1
Chromium	0.016	J	0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:29	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:29	1
Iron	10		0.20	0.20	mg/L		09/09/13 08:15	09/12/13 18:29	1
Lead	0.054		0.0075	0.0050	mg/L		09/09/13 08:15	09/12/13 18:29	1
Manganese	0.096		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:29	1
Nickel	0.014	J	0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:29	1
Selenium	<0.050		0.050	0.010	mg/L		09/09/13 08:15	09/12/13 18:29	1
Silver	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:29	1
Zinc	0.80	B	0.10	0.020	mg/L		09/09/13 08:15	09/12/13 18:29	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/09/13 08:15	09/11/13 17:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/13 08:15	09/11/13 17:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Client Sample ID: 846D-56-B04-2

Lab Sample ID: 500-62485-11

Date Collected: 09/05/13 11:00

Matrix: Solid

Date Received: 09/06/13 06:15

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 10:42	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.019	0.0089	mg/Kg	☼	09/06/13 14:30	09/09/13 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.55		0.200	0.200	SU			09/16/13 13:31	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13749 to 13955 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59929 Longitude: -87.95692
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59929 Longitude: -87.95692

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-57-B01 THROUGH -B04 WERE SAMPLED ADJACENT TO SITE NO. 846D-57. SEE FIGURES 11 & 12, AND TABLE 3au OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-62485-3

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:



 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

 Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-57

Residences, Vacant Lot & Vacant Area

Sample ID	846D-57-B01	846D-57-B02	846D-57-B03	846D-57-B04	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4	0-4	0-4	0-4						
Sample Date	9/5/2013	9/5/2013	9/5/2013	9/5/2013						
PID	0	0	0	0						
Sample pH	7.52	7.87	8.6	6.49						
Matrix	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62485-3
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/26/2013 9:59:19 AM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B01

Lab Sample ID: 500-62485-12

Date Collected: 09/05/13 12:50

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0022	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Chlorobenzene	<0.0052		0.0052	0.00052	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Chloroform	<0.0052		0.0052	0.00059	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
1,2-Dichloroethane	<0.0052		0.0052	0.00076	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
1,1-Dichloroethene	<0.0052		0.0052	0.00083	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
1,2-Dichloropropane	<0.0052		0.0052	0.00078	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00085	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Toluene	<0.0052		0.0052	0.00072	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00092	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00070	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Vinyl acetate	<0.0052		0.0052	0.00081	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	09/05/13 12:50	09/09/13 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/05/13 12:50	09/09/13 15:48	1
Dibromofluoromethane	103		75 - 120	09/05/13 12:50	09/09/13 15:48	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/05/13 12:50	09/09/13 15:48	1
Toluene-d8 (Surr)	99		75 - 122	09/05/13 12:50	09/09/13 15:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B01

Lab Sample ID: 500-62485-12

Date Collected: 09/05/13 12:50

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 81.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
2,4-Dimethylphenol	<0.39	*	0.39	0.12	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Hexachlorocyclopentadiene	<0.80	*	0.80	0.18	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
4-Nitrophenol	<0.80	*	0.80	0.21	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Pentachlorophenol	<0.80	*	0.80	0.20	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B01

Lab Sample ID: 500-62485-12

Date Collected: 09/05/13 12:50

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 81.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0090	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Benzo[k]fluoranthene	<0.039		0.039	0.0095	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	09/16/13 07:41	09/19/13 04:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		25 - 110	09/16/13 07:41	09/19/13 04:07	1
Phenol-d5	99		31 - 110	09/16/13 07:41	09/19/13 04:07	1
Nitrobenzene-d5	77		25 - 115	09/16/13 07:41	09/19/13 04:07	1
2-Fluorobiphenyl	83		25 - 119	09/16/13 07:41	09/19/13 04:07	1
2,4,6-Tribromophenol	106		35 - 137	09/16/13 07:41	09/19/13 04:07	1
Terphenyl-d14	141 X		36 - 134	09/16/13 07:41	09/19/13 04:07	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00083	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
alpha-BHC	<0.0020		0.0020	0.00051	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
alpha-Chlordane	<0.0020		0.0020	0.0010	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
beta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
4,4'-DDD	<0.0020		0.0020	0.00040	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
4,4'-DDT	<0.0020		0.0020	0.0011	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
delta-BHC	<0.0020		0.0020	0.00063	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
Endosulfan I	<0.0020		0.0020	0.00088	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
Endosulfan II	<0.0020		0.0020	0.00033	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
Endosulfan sulfate	<0.0020		0.0020	0.00037	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
Endrin	<0.0020		0.0020	0.00028	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
Endrin aldehyde	<0.0020		0.0020	0.00034	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
Endrin ketone	<0.0020		0.0020	0.00045	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00043	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
gamma-Chlordane	<0.0020		0.0020	0.00053	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
Heptachlor	<0.0020		0.0020	0.00084	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
Heptachlor epoxide	<0.0020		0.0020	0.00071	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
Methoxychlor	<0.010		0.010	0.00039	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1
Toxaphene	<0.020		0.020	0.0084	mg/Kg	☼	09/13/13 20:23	09/19/13 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		56 - 128	09/13/13 20:23	09/19/13 03:16	1
Tetrachloro-m-xylene	55		45 - 112	09/13/13 20:23	09/19/13 03:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B01

Lab Sample ID: 500-62485-12

Date Collected: 09/05/13 12:50

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 81.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9600		12	1.1	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Antimony	<1.2		1.2	0.48	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Arsenic	3.0		0.59	0.12	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Barium	68		0.59	0.063	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Beryllium	0.72		0.24	0.021	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Boron	0.90	J	3.0	0.12	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Cadmium	0.28		0.12	0.015	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Calcium	3600	B	12	3.2	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Chromium	14		0.59	0.069	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Cobalt	6.0		0.30	0.021	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Copper	19	B	0.59	0.052	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Iron	13000		12	4.9	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Lead	12	B	0.30	0.088	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Magnesium	3500	B	5.9	1.2	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Manganese	260	B	0.59	0.032	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Nickel	17	B	0.59	0.058	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Potassium	750		30	1.8	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Selenium	0.59		0.59	0.21	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Sodium	69	B	59	7.9	mg/Kg	☼	09/09/13 10:30	09/18/13 21:59	1
Thallium	<0.59		0.59	0.25	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Vanadium	13		0.30	0.044	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1
Zinc	46	B	1.2	0.24	mg/Kg	☼	09/09/13 10:30	09/17/13 19:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/19/13 09:00	09/20/13 04:07	1
Chromium	<0.025		0.025	0.010	mg/L		09/19/13 09:00	09/20/13 04:07	1
Iron	0.79		0.20	0.20	mg/L		09/19/13 09:00	09/20/13 04:07	1
Lead	0.0094		0.0075	0.0050	mg/L		09/19/13 09:00	09/20/13 04:07	1
Manganese	0.055		0.025	0.010	mg/L		09/19/13 09:00	09/20/13 04:07	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2	B	0.50	0.010	mg/L		09/09/13 08:15	09/12/13 18:33	1
Beryllium	0.0044		0.0040	0.0040	mg/L		09/09/13 08:15	09/12/13 18:33	1
Boron	1.1	B	0.10	0.050	mg/L		09/09/13 08:15	09/12/13 18:33	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		09/09/13 08:15	09/12/13 18:33	1
Chromium	0.13		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:33	1
Cobalt	0.019	J	0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:33	1
Iron	94		0.20	0.20	mg/L		09/09/13 08:15	09/12/13 18:33	1
Lead	0.078		0.0075	0.0050	mg/L		09/09/13 08:15	09/12/13 18:33	1
Manganese	0.26		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:33	1
Nickel	0.098		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:33	1
Selenium	<0.050		0.050	0.010	mg/L		09/09/13 08:15	09/12/13 18:33	1
Silver	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:33	1
Zinc	0.98	B	0.10	0.020	mg/L		09/09/13 08:15	09/12/13 18:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B01

Lab Sample ID: 500-62485-12

Date Collected: 09/05/13 12:50

Matrix: Solid

Date Received: 09/06/13 06:15

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/09/13 08:15	09/17/13 17:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/13 08:15	09/11/13 17:46	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00036		0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 10:44	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.020	0.0094	mg/Kg	☼	09/09/13 14:15	09/10/13 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.52		0.200	0.200	SU			09/16/13 13:36	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B02

Lab Sample ID: 500-62485-13

Date Collected: 09/05/13 13:00

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 80.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1
Xylenes, Total	<0.0098		0.0098	0.00045	mg/Kg	☼	09/05/13 13:00	09/09/13 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/05/13 13:00	09/09/13 16:11	1
Dibromofluoromethane	101		75 - 120	09/05/13 13:00	09/09/13 16:11	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	09/05/13 13:00	09/09/13 16:11	1
Toluene-d8 (Surr)	97		75 - 122	09/05/13 13:00	09/09/13 16:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B02

Lab Sample ID: 500-62485-13

Date Collected: 09/05/13 13:00

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 80.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
2,4-Dimethylphenol	<0.39	*	0.39	0.12	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Hexachlorocyclopentadiene	<0.80	*	0.80	0.18	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
4-Nitrophenol	<0.80	*	0.80	0.21	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Pentachlorophenol	<0.80	*	0.80	0.20	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B02

Lab Sample ID: 500-62485-13

Date Collected: 09/05/13 13:00

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 80.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Benzo[b]fluoranthene	0.014	J	0.039	0.0077	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Benzo[a]pyrene	0.0093	J	0.039	0.0072	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	09/16/13 07:41	09/19/13 04:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		25 - 110				09/16/13 07:41	09/19/13 04:28	1
Phenol-d5	83		31 - 110				09/16/13 07:41	09/19/13 04:28	1
Nitrobenzene-d5	63		25 - 115				09/16/13 07:41	09/19/13 04:28	1
2-Fluorobiphenyl	73		25 - 119				09/16/13 07:41	09/19/13 04:28	1
2,4,6-Tribromophenol	82		35 - 137				09/16/13 07:41	09/19/13 04:28	1
Terphenyl-d14	122		36 - 134				09/16/13 07:41	09/19/13 04:28	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00084	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
alpha-BHC	<0.0021		0.0021	0.00052	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
alpha-Chlordane	<0.0021		0.0021	0.0010	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
beta-BHC	<0.0021		0.0021	0.00063	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
4,4'-DDD	<0.0021		0.0021	0.00041	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
4,4'-DDE	<0.0021		0.0021	0.00034	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
delta-BHC	<0.0021		0.0021	0.00064	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
Dieldrin	<0.0021		0.0021	0.00028	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
Endosulfan I	<0.0021		0.0021	0.00089	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
Endosulfan II	<0.0021		0.0021	0.00033	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
Endosulfan sulfate	<0.0021		0.0021	0.00037	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
Endrin	<0.0021		0.0021	0.00028	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
Endrin aldehyde	<0.0021		0.0021	0.00034	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
Endrin ketone	<0.0021		0.0021	0.00046	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
gamma-BHC (Lindane)	<0.0021		0.0021	0.00044	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
gamma-Chlordane	<0.0021		0.0021	0.00053	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
Heptachlor	<0.0021		0.0021	0.00085	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
Heptachlor epoxide	<0.0021		0.0021	0.00072	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
Methoxychlor	<0.010		0.010	0.00039	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
Toxaphene	<0.020		0.020	0.0086	mg/Kg	☼	09/13/13 20:23	09/19/13 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		56 - 128				09/13/13 20:23	09/19/13 03:35	1
Tetrachloro-m-xylene	44	X	45 - 112				09/13/13 20:23	09/19/13 03:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B02

Lab Sample ID: 500-62485-13

Date Collected: 09/05/13 13:00

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 80.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		12	1.1	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Antimony	<1.2		1.2	0.49	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Arsenic	2.6		0.61	0.12	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Barium	61		0.61	0.065	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Beryllium	0.72		0.24	0.022	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Boron	3.4		3.1	0.13	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Cadmium	0.29		0.12	0.016	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Calcium	7200	B	12	3.3	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Chromium	17		0.61	0.071	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Cobalt	6.4		0.31	0.022	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Copper	23	B	0.61	0.054	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Iron	14000		12	5.0	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Lead	15	B	0.31	0.091	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Magnesium	6200	B	6.1	1.3	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Manganese	140	B	0.61	0.033	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Nickel	22	B	0.61	0.060	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Potassium	1000		31	1.8	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Selenium	0.64		0.61	0.22	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Sodium	260	B	61	8.2	mg/Kg	☼	09/09/13 10:30	09/18/13 22:04	1
Thallium	0.44	J	0.61	0.26	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Vanadium	16		0.31	0.045	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1
Zinc	53	B	1.2	0.25	mg/Kg	☼	09/09/13 10:30	09/17/13 19:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.41		0.20	0.20	mg/L		09/19/13 09:00	09/20/13 04:25	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/19/13 09:00	09/20/13 04:25	1
Manganese	0.26		0.025	0.010	mg/L		09/19/13 09:00	09/20/13 04:25	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1	B	0.50	0.010	mg/L		09/09/13 08:15	09/12/13 18:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/13 08:15	09/12/13 18:38	1
Boron	1.3	B	0.10	0.050	mg/L		09/09/13 08:15	09/12/13 18:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/13 08:15	09/12/13 18:38	1
Chromium	0.087		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:38	1
Cobalt	0.020	J	0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:38	1
Iron	66		0.20	0.20	mg/L		09/09/13 08:15	09/12/13 18:38	1
Lead	0.073		0.0075	0.0050	mg/L		09/09/13 08:15	09/12/13 18:38	1
Manganese	0.26		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:38	1
Nickel	0.086		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:38	1
Selenium	<0.050		0.050	0.010	mg/L		09/09/13 08:15	09/12/13 18:38	1
Silver	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:38	1
Zinc	0.93	B	0.10	0.020	mg/L		09/09/13 08:15	09/12/13 18:38	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/19/13 09:00	09/19/13 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B02

Lab Sample ID: 500-62485-13

Date Collected: 09/05/13 13:00

Matrix: Solid

Date Received: 09/06/13 06:15

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/09/13 08:15	09/11/13 17:46	1
Thallium	0.0020		0.0020	0.0020	mg/L		09/09/13 08:15	09/11/13 17:46	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 10:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0086	mg/Kg	☼	09/09/13 14:15	09/10/13 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.87		0.200	0.200	SU			09/16/13 13:38	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B03

Lab Sample ID: 500-62485-14

Date Collected: 09/05/13 13:10

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 88.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	09/05/13 13:10	09/09/13 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	09/05/13 13:10	09/09/13 16:34	1
Dibromofluoromethane	102		75 - 120	09/05/13 13:10	09/09/13 16:34	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/05/13 13:10	09/09/13 16:34	1
Toluene-d8 (Surr)	98		75 - 122	09/05/13 13:10	09/09/13 16:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B03

Lab Sample ID: 500-62485-14

Date Collected: 09/05/13 13:10

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
2,4-Dimethylphenol	<0.36	*	0.36	0.11	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Hexachlorocyclopentadiene	<0.74	*	0.74	0.17	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
4-Nitrophenol	<0.74	*	0.74	0.20	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Pentachlorophenol	<0.74	*	0.74	0.19	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Phenanthrene	0.059		0.036	0.015	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Anthracene	0.017	J	0.036	0.0086	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Fluoranthene	0.17		0.036	0.015	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Pyrene	0.17		0.036	0.013	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Benzo[a]anthracene	0.057		0.036	0.0077	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B03

Lab Sample ID: 500-62485-14

Date Collected: 09/05/13 13:10

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.092		0.036	0.0083	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Benzo[b]fluoranthene	0.080		0.036	0.0071	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Benzo[k]fluoranthene	0.040		0.036	0.0087	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Benzo[a]pyrene	0.055		0.036	0.0067	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Indeno[1,2,3-cd]pyrene	0.047		0.036	0.012	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Dibenz(a,h)anthracene	0.018 J		0.036	0.010	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
Benzo[g,h,i]perylene	0.064		0.036	0.012	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	09/16/13 07:41	09/20/13 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		25 - 110	09/16/13 07:41	09/20/13 04:50	1
Phenol-d5	74		31 - 110	09/16/13 07:41	09/20/13 04:50	1
Nitrobenzene-d5	54		25 - 115	09/16/13 07:41	09/20/13 04:50	1
2-Fluorobiphenyl	57		25 - 119	09/16/13 07:41	09/20/13 04:50	1
2,4,6-Tribromophenol	65		35 - 137	09/16/13 07:41	09/20/13 04:50	1
Terphenyl-d14	116		36 - 134	09/16/13 07:41	09/20/13 04:50	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0095		0.0095	0.0039	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
alpha-BHC	<0.0095		0.0095	0.0024	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
alpha-Chlordane	<0.0095		0.0095	0.0047	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
beta-BHC	<0.0095		0.0095	0.0029	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
4,4'-DDD	<0.0095		0.0095	0.0019	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
4,4'-DDE	<0.0095		0.0095	0.0016	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
4,4'-DDT	<0.0095		0.0095	0.0049	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
delta-BHC	<0.0095		0.0095	0.0029	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
Dieldrin	<0.0095		0.0095	0.0013	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
Endosulfan I	<0.0095		0.0095	0.0041	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
Endosulfan II	<0.0095		0.0095	0.0015	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
Endosulfan sulfate	<0.0095		0.0095	0.0017	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
Endrin	<0.0095		0.0095	0.0013	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
Endrin aldehyde	<0.0095		0.0095	0.0016	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
Endrin ketone	<0.0095		0.0095	0.0021	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
gamma-BHC (Lindane)	<0.0095		0.0095	0.0020	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
gamma-Chlordane	<0.0095		0.0095	0.0025	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
Heptachlor	<0.0095		0.0095	0.0039	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
Heptachlor epoxide	<0.0095		0.0095	0.0033	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
Methoxychlor	<0.047		0.047	0.0018	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5
Toxaphene	<0.094		0.094	0.039	mg/Kg	☼	09/13/13 20:23	09/19/13 03:55	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		56 - 128	09/13/13 20:23	09/19/13 03:55	5
Tetrachloro-m-xylene	80		45 - 112	09/13/13 20:23	09/19/13 03:55	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B03

Lab Sample ID: 500-62485-14

Date Collected: 09/05/13 13:10

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 88.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8300		11	1.0	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Arsenic	8.7		0.56	0.11	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Barium	57		0.56	0.060	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Beryllium	0.66		0.22	0.020	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Boron	4.7		2.8	0.12	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Cadmium	0.39		0.11	0.014	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Calcium	36000	B	11	3.0	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Chromium	13		0.56	0.065	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Cobalt	8.5		0.28	0.020	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Copper	19	B	0.56	0.050	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Iron	18000		11	4.6	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Lead	13	B	0.28	0.084	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Magnesium	18000	B	5.6	1.2	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Manganese	470	B	0.56	0.030	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Nickel	22	B	0.56	0.055	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Potassium	1100		28	1.7	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Selenium	0.69		0.56	0.20	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Sodium	95	B	56	7.5	mg/Kg	☼	09/09/13 10:30	09/18/13 22:08	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Vanadium	17		0.28	0.042	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1
Zinc	45	B	1.1	0.23	mg/Kg	☼	09/09/13 10:30	09/17/13 19:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/19/13 09:00	09/20/13 04:30	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/19/13 09:00	09/20/13 04:30	1
Manganese	0.45		0.025	0.010	mg/L		09/19/13 09:00	09/20/13 04:30	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.88	B	0.50	0.010	mg/L		09/09/13 08:15	09/12/13 18:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/13 08:15	09/12/13 18:42	1
Boron	1.1	B	0.10	0.050	mg/L		09/09/13 08:15	09/12/13 18:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/13 08:15	09/12/13 18:42	1
Chromium	0.049		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:42	1
Cobalt	0.011	J	0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:42	1
Iron	53		0.20	0.20	mg/L		09/09/13 08:15	09/12/13 18:42	1
Lead	0.031		0.0075	0.0050	mg/L		09/09/13 08:15	09/12/13 18:42	1
Manganese	0.21		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:42	1
Nickel	0.050		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:42	1
Selenium	<0.050		0.050	0.010	mg/L		09/09/13 08:15	09/12/13 18:42	1
Silver	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:42	1
Zinc	0.72	B	0.10	0.020	mg/L		09/09/13 08:15	09/12/13 18:42	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/09/13 08:15	09/11/13 17:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/13 08:15	09/11/13 17:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B03

Lab Sample ID: 500-62485-14

Date Collected: 09/05/13 13:10

Matrix: Solid

Date Received: 09/06/13 06:15

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000065	J	0.00020	0.000020	mg/L	—	09/09/13 14:45	09/10/13 10:47	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.016	0.0077	mg/Kg	☼	09/09/13 14:15	09/10/13 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.60		0.200	0.200	SU	—		09/16/13 13:40	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B04

Lab Sample ID: 500-62485-15

Date Collected: 09/05/13 13:20

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 43.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.76		0.020	0.0087	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Benzene	<0.020		0.020	0.0027	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Bromodichloromethane	<0.020		0.020	0.0035	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Bromoform	<0.020		0.020	0.0046	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Bromomethane	<0.020		0.020	0.0061	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
2-Butanone (MEK)	0.18		0.020	0.0073	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Carbon disulfide	<0.020		0.020	0.0030	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Carbon tetrachloride	<0.020		0.020	0.0036	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Chlorobenzene	<0.020		0.020	0.0020	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Chloroethane	<0.020		0.020	0.0055	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Chloroform	<0.020		0.020	0.0023	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Chloromethane	<0.020		0.020	0.0042	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
cis-1,2-Dichloroethene	<0.020		0.020	0.0028	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
cis-1,3-Dichloropropene	<0.020		0.020	0.0026	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Dibromochloromethane	<0.020		0.020	0.0035	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
1,1-Dichloroethane	<0.020		0.020	0.0032	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
1,2-Dichloroethane	<0.020		0.020	0.0030	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
1,1-Dichloroethene	<0.020		0.020	0.0032	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
1,2-Dichloropropane	<0.020		0.020	0.0030	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
1,3-Dichloropropene, Total	<0.020		0.020	0.0026	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Ethylbenzene	<0.020		0.020	0.0041	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
2-Hexanone	<0.020		0.020	0.0058	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Methylene Chloride	<0.020		0.020	0.0054	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
4-Methyl-2-pentanone (MIBK)	<0.020		0.020	0.0053	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Methyl tert-butyl ether	<0.020		0.020	0.0033	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Styrene	<0.020		0.020	0.0026	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
1,1,1,2-Tetrachloroethane	<0.020		0.020	0.0041	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Tetrachloroethene	<0.020		0.020	0.0031	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Toluene	<0.020		0.020	0.0028	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
trans-1,2-Dichloroethene	<0.020		0.020	0.0028	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
trans-1,3-Dichloropropene	<0.020		0.020	0.0036	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
1,1,1-Trichloroethane	<0.020		0.020	0.0030	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
1,1,2-Trichloroethane	<0.020		0.020	0.0027	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Trichloroethene	<0.020		0.020	0.0033	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Vinyl acetate	<0.020		0.020	0.0032	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Vinyl chloride	<0.020		0.020	0.0042	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1
Xylenes, Total	<0.040		0.040	0.0018	mg/Kg	☼	09/05/13 13:20	09/10/13 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/05/13 13:20	09/10/13 13:37	1
Dibromofluoromethane	104		75 - 120	09/05/13 13:20	09/10/13 13:37	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	09/05/13 13:20	09/10/13 13:37	1
Toluene-d8 (Surr)	104		75 - 122	09/05/13 13:20	09/10/13 13:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.37		0.37	0.12	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Bis(2-chloroethyl)ether	<0.37		0.37	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
1,3-Dichlorobenzene	<0.37		0.37	0.076	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
1,4-Dichlorobenzene	<0.37		0.37	0.076	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B04

Lab Sample ID: 500-62485-15

Date Collected: 09/05/13 13:20

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 43.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.37		0.37	0.079	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
2-Methylphenol	<0.37		0.37	0.096	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
2,2'-oxybis[1-chloropropane]	<0.37		0.37	0.081	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
N-Nitrosodi-n-propylamine	<0.37		0.37	0.092	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Hexachloroethane	<0.37		0.37	0.077	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
2-Chlorophenol	<0.37		0.37	0.10	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Nitrobenzene	<0.072		0.072	0.023	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Bis(2-chloroethoxy)methane	<0.37		0.37	0.080	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
1,2,4-Trichlorobenzene	<0.37		0.37	0.082	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Isophorone	<0.37		0.37	0.081	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
2,4-Dimethylphenol	<0.72	*	0.72	0.23	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Hexachlorobutadiene	<0.37		0.37	0.095	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Naphthalene	<0.072		0.072	0.014	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
2,4-Dichlorophenol	<0.72		0.72	0.22	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
4-Chloroaniline	<1.5		1.5	0.22	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
2,4,6-Trichlorophenol	<0.72		0.72	0.091	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
2,4,5-Trichlorophenol	<0.72		0.72	0.21	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Hexachlorocyclopentadiene	<1.5	*	1.5	0.34	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
2-Methylnaphthalene	<0.37		0.37	0.094	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
2-Nitroaniline	<0.37		0.37	0.13	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
2-Chloronaphthalene	<0.37		0.37	0.082	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
4-Chloro-3-methylphenol	<0.72		0.72	0.35	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
2,6-Dinitrotoluene	<0.37		0.37	0.086	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
2-Nitrophenol	<0.72		0.72	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
3-Nitroaniline	<0.72		0.72	0.14	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Dimethyl phthalate	<0.37		0.37	0.091	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
2,4-Dinitrophenol	<1.5		1.5	0.37	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Acenaphthylene	<0.072		0.072	0.017	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
2,4-Dinitrotoluene	<0.37		0.37	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Acenaphthene	<0.072		0.072	0.022	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Dibenzofuran	<0.37		0.37	0.087	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
4-Nitrophenol	<1.5	*	1.5	0.39	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Fluorene	<0.072		0.072	0.017	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
4-Nitroaniline	<0.72		0.72	0.15	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
4-Bromophenyl phenyl ether	<0.37		0.37	0.081	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Hexachlorobenzene	<0.15		0.15	0.014	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Diethyl phthalate	<0.37		0.37	0.12	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
4-Chlorophenyl phenyl ether	<0.37		0.37	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Pentachlorophenol	<1.5	*	1.5	0.37	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
N-Nitrosodiphenylamine	<0.37		0.37	0.098	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.18	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Phenanthrene	<0.072		0.072	0.030	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Anthracene	<0.072		0.072	0.017	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Carbazole	<0.37		0.37	0.10	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Di-n-butyl phthalate	<0.37		0.37	0.092	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Fluoranthene	0.032	J	0.072	0.030	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Pyrene	<0.072		0.072	0.026	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Butyl benzyl phthalate	<0.37		0.37	0.091	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Benzo[a]anthracene	<0.072		0.072	0.015	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B04

Lab Sample ID: 500-62485-15

Date Collected: 09/05/13 13:20

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 43.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.072		0.072	0.016	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
3,3'-Dichlorobenzidine	<0.37		0.37	0.061	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Bis(2-ethylhexyl) phthalate	<0.37		0.37	0.096	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Di-n-octyl phthalate	<0.37		0.37	0.15	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Benzo[b]fluoranthene	<0.072		0.072	0.014	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Benzo[k]fluoranthene	<0.072		0.072	0.017	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Benzo[a]pyrene	0.016	J	0.072	0.013	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Indeno[1,2,3-cd]pyrene	<0.072		0.072	0.025	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Dibenz(a,h)anthracene	<0.072		0.072	0.020	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
Benzo[g,h,i]perylene	<0.072		0.072	0.025	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1
3 & 4 Methylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/16/13 07:41	09/19/13 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		25 - 110	09/16/13 07:41	09/19/13 05:09	1
Phenol-d5	55		31 - 110	09/16/13 07:41	09/19/13 05:09	1
Nitrobenzene-d5	44		25 - 115	09/16/13 07:41	09/19/13 05:09	1
2-Fluorobiphenyl	51		25 - 119	09/16/13 07:41	09/19/13 05:09	1
2,4,6-Tribromophenol	65		35 - 137	09/16/13 07:41	09/19/13 05:09	1
Terphenyl-d14	95		36 - 134	09/16/13 07:41	09/19/13 05:09	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0040		0.0040	0.0016	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
alpha-BHC	<0.0040		0.0040	0.00099	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
alpha-Chlordane	<0.0040		0.0040	0.0020	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
beta-BHC	<0.0040		0.0040	0.0012	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
4,4'-DDD	<0.0040		0.0040	0.00077	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
4,4'-DDE	<0.0040		0.0040	0.00064	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
4,4'-DDT	<0.0040		0.0040	0.0020	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
delta-BHC	<0.0040		0.0040	0.0012	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
Dieldrin	<0.0040		0.0040	0.00053	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
Endosulfan I	<0.0040		0.0040	0.0017	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
Endosulfan II	<0.0040		0.0040	0.00063	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
Endosulfan sulfate	<0.0040		0.0040	0.00071	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
Endrin	<0.0040		0.0040	0.00054	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
Endrin aldehyde	<0.0040		0.0040	0.00065	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
Endrin ketone	<0.0040		0.0040	0.00088	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
gamma-BHC (Lindane)	<0.0040		0.0040	0.00084	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
gamma-Chlordane	<0.0040		0.0040	0.0010	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
Heptachlor	<0.0040		0.0040	0.0016	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
Heptachlor epoxide	<0.0040		0.0040	0.0014	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
Methoxychlor	<0.019		0.019	0.00075	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1
Toxaphene	<0.039		0.039	0.016	mg/Kg	☼	09/13/13 20:23	09/19/13 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	57		56 - 128	09/13/13 20:23	09/19/13 04:14	1
Tetrachloro-m-xylene	52		45 - 112	09/13/13 20:23	09/19/13 04:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B04

Lab Sample ID: 500-62485-15

Date Collected: 09/05/13 13:20

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 43.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7600		23	2.1	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Antimony	<2.3		2.3	0.92	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Arsenic	5.0		1.1	0.23	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Barium	90		1.1	0.12	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Beryllium	0.73		0.46	0.040	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Boron	4.9	J	5.7	0.24	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Cadmium	1.1		0.23	0.029	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Calcium	21000	B	23	6.2	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Chromium	10		1.1	0.13	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Cobalt	6.0		0.57	0.041	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Copper	37	B	1.1	0.10	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Iron	10000		23	9.4	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Lead	11	B	0.57	0.17	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Magnesium	3400	B	11	2.4	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Manganese	190	B	1.1	0.062	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Nickel	25	B	1.1	0.11	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Potassium	520		57	3.4	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Selenium	3.6		1.1	0.41	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Silver	0.088	J	0.57	0.041	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Sodium	200	B	110	15	mg/Kg	☼	09/09/13 10:30	09/18/13 22:13	1
Thallium	<1.1		1.1	0.48	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Vanadium	21		0.57	0.085	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1
Zinc	40	B	2.3	0.46	mg/Kg	☼	09/09/13 10:30	09/17/13 19:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.58		0.20	0.20	mg/L		09/19/13 09:00	09/20/13 04:35	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/19/13 09:00	09/20/13 04:35	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.93	B	0.50	0.010	mg/L		09/09/13 08:15	09/12/13 18:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/13 08:15	09/12/13 18:46	1
Boron	1.3	B	0.10	0.050	mg/L		09/09/13 08:15	09/12/13 18:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/13 08:15	09/12/13 18:46	1
Chromium	0.015	J	0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:46	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:46	1
Iron	9.7		0.20	0.20	mg/L		09/09/13 08:15	09/12/13 18:46	1
Lead	0.013		0.0075	0.0050	mg/L		09/09/13 08:15	09/12/13 18:46	1
Manganese	0.074		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:46	1
Nickel	0.013	J	0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:46	1
Selenium	<0.050		0.050	0.010	mg/L		09/09/13 08:15	09/12/13 18:46	1
Silver	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:46	1
Zinc	0.74	B	0.10	0.020	mg/L		09/09/13 08:15	09/12/13 18:46	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/09/13 08:15	09/11/13 17:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/09/13 08:15	09/11/13 17:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Client Sample ID: 846D-57-B04

Lab Sample ID: 500-62485-15

Date Collected: 09/05/13 13:20

Matrix: Solid

Date Received: 09/06/13 06:15

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000026	J	0.00020	0.000020	mg/L	—	09/09/13 14:45	09/10/13 10:49	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.037	0.017	mg/Kg	☼	09/09/13 14:15	09/10/13 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.49		0.200	0.200	SU	—		09/16/13 13:42	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13750 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59963 Longitude: -87.95300

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59963 Longitude: -87.95300

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-58-B02 WAS SAMPLED ADJACENT TO SITE NO. 846D-58. SEE FIGURE 12 AND TABLE 3av OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-62388-1

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

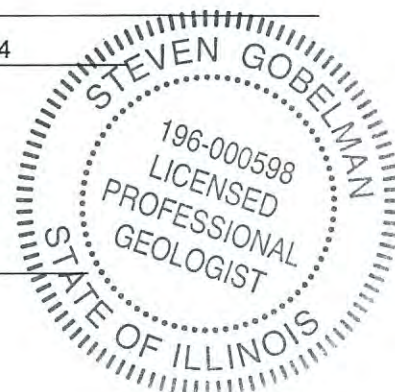
Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

10/13/14
 Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-58

Tee Time Golf Range

Sample ID	846D-58-B02-1	846D-58-B02-2						
Sample Depth (ft)	0-5.5	5.5-11						
Sample Date	9/4/2013	9/4/2013						
PID	0	0						
Sample pH	8.11	8.21						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								
			1 Most Stringent	2 Outside a Populated Area	3 Populated non-Metropolitan Area	4 Within Chicago Corporate Limits	5 Metropolitan Statistical Area	6 Class I Soil TCLP/SPLP Comparisons
			MAC	MAC	MAC	MAC	MAC	Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62388-1
Client Project/Site: IDOT - Gougar Road - WO 023
Revision: 1

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/23/2013 4:21:06 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-1

Client Sample ID: 846D-58-B02-1

Lab Sample ID: 500-62388-4

Date Collected: 09/04/13 14:00

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Ethylbenzene	<0.0041		0.0041	0.00082	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00067	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00082	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	09/04/13 14:00	09/06/13 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/04/13 14:00	09/06/13 13:35	1
Dibromofluoromethane	97		75 - 120	09/04/13 14:00	09/06/13 13:35	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/04/13 14:00	09/06/13 13:35	1
Toluene-d8 (Surr)	98		75 - 122	09/04/13 14:00	09/06/13 13:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-1

Client Sample ID: 846D-58-B02-1

Lab Sample ID: 500-62388-4

Date Collected: 09/04/13 14:00

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Hexachlorobenzene	<0.077		0.077	0.0076	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Pentachlorophenol	<0.77	*	0.77	0.20	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-1

Client Sample ID: 846D-58-B02-1

Lab Sample ID: 500-62388-4

Date Collected: 09/04/13 14:00

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.038	0.0087	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Benzo[b]fluoranthene	0.014	J	0.038	0.0074	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Benzo[a]pyrene	0.0099	J	0.038	0.0070	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
Benzo[g,h,i]perylene	0.019	J	0.038	0.013	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	09/11/13 07:42	09/12/13 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		25 - 110	09/11/13 07:42	09/12/13 23:00	1
Phenol-d5	64		31 - 110	09/11/13 07:42	09/12/13 23:00	1
Nitrobenzene-d5	69		25 - 115	09/11/13 07:42	09/12/13 23:00	1
2-Fluorobiphenyl	71		25 - 119	09/11/13 07:42	09/12/13 23:00	1
2,4,6-Tribromophenol	75		35 - 137	09/11/13 07:42	09/12/13 23:00	1
Terphenyl-d14	96		36 - 134	09/11/13 07:42	09/12/13 23:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		11	1.0	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Arsenic	8.3		0.56	0.11	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Barium	55		0.56	0.060	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Beryllium	0.67		0.23	0.020	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Boron	8.0		2.8	0.12	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Cadmium	0.38		0.11	0.014	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Calcium	34000	B	11	3.0	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Chromium	16	B	0.56	0.065	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Cobalt	8.7	B	0.28	0.020	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Copper	20		0.56	0.050	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Iron	19000		11	4.6	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Lead	12		0.28	0.084	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Magnesium	16000	B	5.6	1.2	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Manganese	380	B	0.56	0.031	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Nickel	23	B	0.56	0.055	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Potassium	1900	B	28	1.7	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Selenium	0.77		0.56	0.20	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Sodium	86		56	7.5	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Thallium	0.78		0.56	0.24	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Vanadium	22	B	0.28	0.042	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1
Zinc	49	B	1.1	0.23	mg/Kg	☼	09/05/13 11:30	09/17/13 23:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/19/13 22:52	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/18/13 08:30	09/19/13 22:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-1

Client Sample ID: 846D-58-B02-1

Lab Sample ID: 500-62388-4

Date Collected: 09/04/13 14:00

Matrix: Solid

Date Received: 09/05/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.076		0.025	0.010	mg/L		09/18/13 08:30	09/19/13 22:52	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.96		0.50	0.010	mg/L		09/06/13 10:30	09/14/13 16:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/06/13 10:30	09/14/13 16:32	1
Boron	1.4		0.10	0.050	mg/L		09/06/13 10:30	09/14/13 16:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/06/13 10:30	09/15/13 22:39	1
Chromium	0.064		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 16:32	1
Cobalt	0.016	J	0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 16:32	1
Iron	59		0.20	0.20	mg/L		09/06/13 10:30	09/14/13 16:32	1
Lead	0.033		0.0075	0.0050	mg/L		09/06/13 10:30	09/15/13 22:39	1
Manganese	0.26		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 16:32	1
Nickel	0.057		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 16:32	1
Selenium	<0.050		0.050	0.010	mg/L		09/06/13 10:30	09/14/13 16:32	1
Silver	<0.025		0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 16:32	1
Zinc	0.85	B	0.10	0.020	mg/L		09/06/13 10:30	09/14/13 16:32	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/06/13 10:30	09/10/13 15:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/06/13 10:30	09/11/13 17:05	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000071	J	0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 11:21	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0090	mg/Kg	☼	09/05/13 14:30	09/06/13 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.11		0.200	0.200	SU			09/13/13 14:34	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-1

Client Sample ID: 846D-58-B02-2

Lab Sample ID: 500-62388-5

Date Collected: 09/04/13 14:05

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 84.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0040		0.0040	0.0017	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Benzene	<0.0040		0.0040	0.00054	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Bromoform	<0.0040		0.0040	0.00091	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Carbon disulfide	<0.0040		0.0040	0.00059	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Carbon tetrachloride	<0.0040		0.0040	0.00072	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Chlorobenzene	<0.0040		0.0040	0.00040	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Chloromethane	<0.0040		0.0040	0.00083	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00052	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Dibromochloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
1,1-Dichloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
1,1-Dichloroethene	<0.0040		0.0040	0.00064	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
1,2-Dichloropropane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00052	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Ethylbenzene	<0.0040		0.0040	0.00080	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
2-Hexanone	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0010	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00065	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Styrene	<0.0040		0.0040	0.00052	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00080	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Tetrachloroethene	<0.0040		0.0040	0.00060	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Toluene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00054	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00071	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00054	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Trichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Vinyl acetate	<0.0040		0.0040	0.00062	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Vinyl chloride	<0.0040		0.0040	0.00083	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1
Xylenes, Total	<0.0079		0.0079	0.00036	mg/Kg	☼	09/04/13 14:05	09/06/13 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/04/13 14:05	09/06/13 13:58	1
Dibromofluoromethane	101		75 - 120	09/04/13 14:05	09/06/13 13:58	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	09/04/13 14:05	09/06/13 13:58	1
Toluene-d8 (Surr)	99		75 - 122	09/04/13 14:05	09/06/13 13:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-1

Client Sample ID: 846D-58-B02-2

Lab Sample ID: 500-62388-5

Date Collected: 09/04/13 14:05

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Pentachlorophenol	<0.77	*	0.77	0.19	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-1

Client Sample ID: 846D-58-B02-2

Lab Sample ID: 500-62388-5

Date Collected: 09/04/13 14:05

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.0093	J	0.038	0.0086	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Benzo[b]fluoranthene	0.013	J	0.038	0.0074	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Benzo[k]fluoranthene	0.012	J	0.038	0.0091	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Benzo[a]pyrene	0.012	J	0.038	0.0069	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Dibenz(a,h)anthracene	0.013	J	0.038	0.011	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
Benzo[g,h,i]perylene	0.015	J	0.038	0.013	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/11/13 07:42	09/12/13 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		25 - 110	09/11/13 07:42	09/12/13 23:21	1
Phenol-d5	61		31 - 110	09/11/13 07:42	09/12/13 23:21	1
Nitrobenzene-d5	64		25 - 115	09/11/13 07:42	09/12/13 23:21	1
2-Fluorobiphenyl	69		25 - 119	09/11/13 07:42	09/12/13 23:21	1
2,4,6-Tribromophenol	67		35 - 137	09/11/13 07:42	09/12/13 23:21	1
Terphenyl-d14	119		36 - 134	09/11/13 07:42	09/12/13 23:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		11	0.99	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Arsenic	7.6		0.54	0.11	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Barium	58		0.54	0.058	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Beryllium	0.73		0.22	0.019	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Boron	7.2		2.7	0.11	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Cadmium	0.42		0.11	0.014	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Calcium	26000	B	11	2.9	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Chromium	18	B	0.54	0.063	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Cobalt	8.4	B	0.27	0.019	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Copper	22		0.54	0.048	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Iron	20000		11	4.4	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Lead	14		0.27	0.080	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Magnesium	15000	B	5.4	1.1	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Manganese	390	B	0.54	0.029	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Nickel	23	B	0.54	0.053	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Potassium	1800	B	27	1.6	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Selenium	0.94		0.54	0.19	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Sodium	74		54	7.2	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Thallium	0.50	J	0.54	0.23	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Vanadium	24	B	0.27	0.040	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1
Zinc	52	B	1.1	0.22	mg/Kg	☼	09/05/13 11:30	09/17/13 23:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/19/13 22:57	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/18/13 08:30	09/19/13 22:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-1

Client Sample ID: 846D-58-B02-2

Lab Sample ID: 500-62388-5

Date Collected: 09/04/13 14:05

Matrix: Solid

Date Received: 09/05/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.82		0.50	0.010	mg/L		09/06/13 10:30	09/14/13 16:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/06/13 10:30	09/14/13 16:38	1
Boron	1.3		0.10	0.050	mg/L		09/06/13 10:30	09/14/13 16:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/06/13 10:30	09/15/13 22:43	1
Chromium	0.022	J	0.025	0.010	mg/L		09/06/13 10:30	09/14/13 16:38	1
Cobalt	0.0050	J	0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 16:38	1
Iron	16		0.20	0.20	mg/L		09/06/13 10:30	09/14/13 16:38	1
Lead	0.011		0.0075	0.0050	mg/L		09/06/13 10:30	09/15/13 22:43	1
Manganese	0.073		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 16:38	1
Nickel	0.016	J	0.025	0.010	mg/L		09/06/13 10:30	09/14/13 16:38	1
Selenium	<0.050		0.050	0.010	mg/L		09/06/13 10:30	09/14/13 16:38	1
Silver	<0.025		0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 16:38	1
Zinc	0.72	B	0.10	0.020	mg/L		09/06/13 10:30	09/14/13 16:38	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/06/13 10:30	09/10/13 15:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/06/13 10:30	09/11/13 17:06	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 11:23	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0082	mg/Kg	✱	09/05/13 14:30	09/06/13 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.21		0.200	0.200	SU			09/13/13 14:40	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>456 / IL7 Willow Creek Co.</u> Project No.: <u>ID07 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: <u>KM, gm</u> Sampler: _____	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-62388</u> Sample Temp.: <u>36/39</u> Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
ANALYSES																
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
1	846D-58-B01-1	9/4	1:25	S	X						X	X	X	X		0-5,5
2	846D-58-B01-2		1:30	S	X						X	X	X	X		5,5-11
3	846D-58-B01-2 DUP		1:35	S	X						X	X	X	X		5,5-11
4	846D-58-B02-1		2:00	S	X						X	X	X	X		0-5,5
5	846D-58-B02-2		2:05	S	X						X	X	X	X		5,5-11
Relinquished by: <u>Kim A. Young (AEE)</u> Date/Time: <u>9/4/13 4:16</u> Received by: <u>Edward Keating</u> Date/Time: <u>9/4/13 16:16</u>																
Relinquished by: <u>Edward Keating</u> Date/Time: <u>9/4/13 17:00</u> Received by: <u>Richard Wright</u> Date/Time: <u>9/5/13 06:30</u>																
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____																



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13747 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59934 Longitude: -87.95320

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1978075046 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59934 Longitude: -87.95320

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 846D-59-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-59. SEE FIGURE 12 AND TABLE 3aw OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-62388-2

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:



 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/5/14

 Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-59

BI Equipment Rental

Sample ID	846D-59-B01	846D-59-B02						
Sample Depth (ft)	0-3	0-3						
Sample Date	9/4/2013	9/4/2013						
PID	0	0						
Sample pH	8.63	8.12						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								

¹ Most Stringent
MAC

² Outside a
Populated Area
MAC

³ Populated
non-
Metropolitan
Statistical Area
MAC

⁴ Within
Chicago
Corporate Limits
MAC

⁵ Metropolitan
Statistical Area
MAC

⁶ Class I Soil
TCLP/SPLP
Comparisons
Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62388-2
Client Project/Site: IDOT - Gougar Road - WO 023
Revision: 1

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/23/2013 4:22:04 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-2

Client Sample ID: 846D-59-B01

Lab Sample ID: 500-62388-6

Date Collected: 09/04/13 12:00

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 94.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	09/04/13 12:00	09/06/13 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/04/13 12:00	09/06/13 14:21	1
Dibromofluoromethane	98		75 - 120	09/04/13 12:00	09/06/13 14:21	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	09/04/13 12:00	09/06/13 14:21	1
Toluene-d8 (Surr)	96		75 - 122	09/04/13 12:00	09/06/13 14:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.054	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-2

Client Sample ID: 846D-59-B01

Lab Sample ID: 500-62388-6

Date Collected: 09/04/13 12:00

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 94.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Naphthalene	<0.034		0.034	0.0065	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
4-Chloroaniline	<0.69		0.69	0.10	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
2,4,5-Trichlorophenol	<0.34		0.34	0.097	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Hexachlorocyclopentadiene	<0.69		0.69	0.16	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
2-Nitroaniline	<0.17		0.17	0.061	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
2-Nitrophenol	<0.34		0.34	0.053	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
2,4-Dinitrophenol	<0.69		0.69	0.17	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Acenaphthylene	<0.034		0.034	0.0078	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
4-Nitrophenol	<0.69		0.69	0.18	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Fluorene	<0.034		0.034	0.0077	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
4-Nitroaniline	<0.34		0.34	0.070	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Hexachlorobenzene	<0.069		0.069	0.0067	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Pentachlorophenol	<0.69	*	0.69	0.17	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.082	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Anthracene	<0.034		0.034	0.0080	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Fluoranthene	0.019	J	0.034	0.014	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Pyrene	0.021	J	0.034	0.012	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Benzo[a]anthracene	0.020	J	0.034	0.0071	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-2

Client Sample ID: 846D-59-B01

Lab Sample ID: 500-62388-6

Date Collected: 09/04/13 12:00

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 94.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.030	J	0.034	0.0077	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Di-n-octyl phthalate	<0.17		0.17	0.069	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Benzo[b]fluoranthene	0.039		0.034	0.0066	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Benzo[k]fluoranthene	0.015	J	0.034	0.0081	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Benzo[a]pyrene	0.028	J	0.034	0.0062	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.034	0.011	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Dibenz(a,h)anthracene	0.014	J	0.034	0.0095	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
Benzo[g,h,i]perylene	0.028	J	0.034	0.011	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1
3 & 4 Methylphenol	<0.17		0.17	0.064	mg/Kg	☼	09/11/13 07:42	09/12/13 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	09/11/13 07:42	09/12/13 23:41	1
Phenol-d5	59		31 - 110	09/11/13 07:42	09/12/13 23:41	1
Nitrobenzene-d5	60		25 - 115	09/11/13 07:42	09/12/13 23:41	1
2-Fluorobiphenyl	65		25 - 119	09/11/13 07:42	09/12/13 23:41	1
2,4,6-Tribromophenol	100		35 - 137	09/11/13 07:42	09/12/13 23:41	1
Terphenyl-d14	101		36 - 134	09/11/13 07:42	09/12/13 23:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3900		48	4.5	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Antimony	<4.8		4.8	1.9	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Arsenic	3.9		2.4	0.48	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Barium	23		2.4	0.26	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Beryllium	0.34	J	0.97	0.086	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Boron	11	J	12	0.51	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Cadmium	0.18	J	0.48	0.062	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Calcium	160000	B	48	13	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Chromium	7.7	B ^	2.4	0.28	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Cobalt	4.2	B	1.2	0.086	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Copper	6.9		2.4	0.21	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Iron	9400		48	20	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Lead	7.9		1.2	0.36	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Magnesium	89000	B	24	5.0	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Manganese	270	B	2.4	0.13	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Nickel	8.8	B	2.4	0.24	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Potassium	910	B	120	7.3	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Selenium	<2.4		2.4	0.86	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Silver	0.18	J B	1.2	0.088	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Sodium	440		240	32	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Thallium	<2.4		2.4	1.0	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Vanadium	12	B	1.2	0.18	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5
Zinc	20	B	4.8	0.98	mg/Kg	☼	09/05/13 11:30	09/18/13 23:07	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/19/13 23:02	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/18/13 08:30	09/19/13 23:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-2

Client Sample ID: 846D-59-B01

Lab Sample ID: 500-62388-6

Date Collected: 09/04/13 12:00

Matrix: Solid

Date Received: 09/05/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.0		0.025	0.010	mg/L		09/18/13 08:30	09/19/13 23:02	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.010	mg/L		09/06/13 10:30	09/14/13 16:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/06/13 10:30	09/14/13 16:44	1
Boron	1.5		0.10	0.050	mg/L		09/06/13 10:30	09/14/13 16:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/06/13 10:30	09/15/13 22:56	1
Chromium	0.054		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 16:44	1
Cobalt	0.018	J	0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 16:44	1
Iron	53		0.20	0.20	mg/L		09/06/13 10:30	09/14/13 16:44	1
Lead	0.040		0.0075	0.0050	mg/L		09/06/13 10:30	09/15/13 22:56	1
Manganese	0.19		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 16:44	1
Nickel	0.045		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 16:44	1
Selenium	<0.050		0.050	0.010	mg/L		09/06/13 10:30	09/14/13 16:44	1
Silver	<0.025		0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 16:44	1
Zinc	0.90	B	0.10	0.020	mg/L		09/06/13 10:30	09/14/13 16:44	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/06/13 10:30	09/10/13 15:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/06/13 10:30	09/11/13 17:07	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000074	J	0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 11:25	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.015		0.015	0.0072	mg/Kg	☼	09/05/13 14:30	09/06/13 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.63		0.200	0.200	SU			09/13/13 14:46	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-2

Client Sample ID: 846D-59-B02

Lab Sample ID: 500-62388-7

Date Collected: 09/04/13 11:40

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 90.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0058		0.0058	0.0025	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Benzene	<0.0058		0.0058	0.00079	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Bromodichloromethane	<0.0058		0.0058	0.00099	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Bromoform	<0.0058		0.0058	0.0013	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Bromomethane	<0.0058		0.0058	0.0017	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
2-Butanone (MEK)	<0.0058		0.0058	0.0021	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Carbon disulfide	<0.0058		0.0058	0.00086	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Carbon tetrachloride	<0.0058		0.0058	0.0011	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Chlorobenzene	<0.0058		0.0058	0.00059	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Chloroethane	<0.0058		0.0058	0.0016	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Chloroform	<0.0058		0.0058	0.00066	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Chloromethane	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
cis-1,2-Dichloroethene	<0.0058		0.0058	0.00082	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
cis-1,3-Dichloropropene	<0.0058		0.0058	0.00076	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Dibromochloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
1,1-Dichloroethane	<0.0058		0.0058	0.00091	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
1,2-Dichloroethane	<0.0058		0.0058	0.00086	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
1,1-Dichloroethene	<0.0058		0.0058	0.00093	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
1,2-Dichloropropane	<0.0058		0.0058	0.00088	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
1,3-Dichloropropene, Total	<0.0058		0.0058	0.00076	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Ethylbenzene	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
2-Hexanone	<0.0058		0.0058	0.0017	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Methylene Chloride	<0.0058		0.0058	0.0016	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0015	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Methyl tert-butyl ether	<0.0058		0.0058	0.00095	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Styrene	<0.0058		0.0058	0.00076	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
1,1,1,2-Tetrachloroethane	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Tetrachloroethene	<0.0058		0.0058	0.00088	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Toluene	<0.0058		0.0058	0.00081	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
trans-1,2-Dichloroethene	<0.0058		0.0058	0.00079	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
trans-1,3-Dichloropropene	<0.0058		0.0058	0.0010	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
1,1,1-Trichloroethane	<0.0058		0.0058	0.00086	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
1,1,2-Trichloroethane	<0.0058		0.0058	0.00079	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Trichloroethene	<0.0058		0.0058	0.00095	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Vinyl acetate	<0.0058		0.0058	0.00091	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Vinyl chloride	<0.0058		0.0058	0.0012	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1
Xylenes, Total	<0.012		0.012	0.00052	mg/Kg	☼	09/04/13 11:40	09/06/13 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	09/04/13 11:40	09/06/13 14:44	1
Dibromofluoromethane	101		75 - 120	09/04/13 11:40	09/06/13 14:44	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	09/04/13 11:40	09/06/13 14:44	1
Toluene-d8 (Surr)	97		75 - 122	09/04/13 11:40	09/06/13 14:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-2

Client Sample ID: 846D-59-B02

Lab Sample ID: 500-62388-7

Date Collected: 09/04/13 11:40

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 90.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Hexachlorocyclopentadiene	<0.72		0.72	0.16	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
3-Nitroaniline	<0.35		0.35	0.069	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Acenaphthylene	<0.035		0.035	0.0082	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Pentachlorophenol	<0.72	*	0.72	0.18	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Pyrene	0.018	J	0.035	0.013	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Benzo[a]anthracene	0.0087	J	0.035	0.0074	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-2

Client Sample ID: 846D-59-B02

Lab Sample ID: 500-62388-7

Date Collected: 09/04/13 11:40

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 90.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.026	J	0.035	0.0080	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Benzo[b]fluoranthene	0.024	J	0.035	0.0069	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Benzo[k]fluoranthene	0.0090	J	0.035	0.0085	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Benzo[a]pyrene	0.022	J	0.035	0.0065	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Indeno[1,2,3-cd]pyrene	0.018	J	0.035	0.012	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
Benzo[g,h,i]perylene	0.029	J	0.035	0.012	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	09/11/13 07:42	09/13/13 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	09/11/13 07:42	09/13/13 00:02	1
Phenol-d5	56		31 - 110	09/11/13 07:42	09/13/13 00:02	1
Nitrobenzene-d5	60		25 - 115	09/11/13 07:42	09/13/13 00:02	1
2-Fluorobiphenyl	65		25 - 119	09/11/13 07:42	09/13/13 00:02	1
2,4,6-Tribromophenol	92		35 - 137	09/11/13 07:42	09/13/13 00:02	1
Terphenyl-d14	91		36 - 134	09/11/13 07:42	09/13/13 00:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6300		11	0.99	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Arsenic	4.4		0.54	0.11	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Barium	42		0.54	0.058	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Beryllium	0.46		0.22	0.019	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Boron	6.0		2.7	0.11	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Cadmium	0.42		0.11	0.014	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Calcium	45000	B	11	2.9	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Chromium	11	B	0.54	0.062	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Cobalt	6.8	B	0.27	0.019	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Copper	21		0.54	0.048	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Iron	16000		11	4.4	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Lead	18		0.27	0.080	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Magnesium	22000	B	5.4	1.1	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Manganese	450	B	0.54	0.029	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Nickel	17	B	0.54	0.053	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Potassium	1300	B	27	1.6	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Selenium	0.76		0.54	0.19	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Silver	0.031	J B	0.27	0.019	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Sodium	110		54	7.2	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Thallium	0.59		0.54	0.23	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Vanadium	15	B	0.27	0.040	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1
Zinc	53	B	1.1	0.22	mg/Kg	☼	09/05/13 11:30	09/17/13 23:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/19/13 23:07	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/18/13 08:30	09/19/13 23:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-2

Client Sample ID: 846D-59-B02

Lab Sample ID: 500-62388-7

Date Collected: 09/04/13 11:40

Matrix: Solid

Date Received: 09/05/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.016	J	0.025	0.010	mg/L		09/18/13 08:30	09/19/13 23:07	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		09/06/13 10:30	09/14/13 16:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/06/13 10:30	09/14/13 16:50	1
Boron	1.5		0.10	0.050	mg/L		09/06/13 10:30	09/14/13 16:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/06/13 10:30	09/15/13 22:59	1
Chromium	0.072		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 16:50	1
Cobalt	0.019	J	0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 16:50	1
Iron	70		0.20	0.20	mg/L		09/06/13 10:30	09/14/13 16:50	1
Lead	0.042		0.0075	0.0050	mg/L		09/06/13 10:30	09/15/13 22:59	1
Manganese	0.31		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 16:50	1
Nickel	0.065		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 16:50	1
Selenium	<0.050		0.050	0.010	mg/L		09/06/13 10:30	09/14/13 16:50	1
Silver	<0.025		0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 16:50	1
Zinc	0.93	B	0.10	0.020	mg/L		09/06/13 10:30	09/14/13 16:50	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/06/13 10:30	09/10/13 15:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/06/13 10:30	09/11/13 17:10	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000075	J	0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 11:27	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0082	mg/Kg	☼	09/05/13 14:30	09/06/13 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12		0.200	0.200	SU			09/13/13 14:52	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13726 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59963 Longitude: -87.95268
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59963 Longitude: -87.95268

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-60-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-60. SEE FIGURE 12 AND TABLE 3ax OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-62388-3

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/2/14
Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-60

Colonial Manor Animal Hospital

Sample ID	846D-60-B01-1	846D-60-B01-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-7.5	7.5-15						
Sample Date	9/4/2013	9/4/2013						
PID	0	87						
Sample pH	8.26	0						
Matrix	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62388-3
Client Project/Site: IDOT - Gougar Road - WO 023
Revision: 1

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/23/2013 4:22:57 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-3

Client Sample ID: 846D-60-B01-1

Lab Sample ID: 500-62388-8

Date Collected: 09/04/13 14:25

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 87.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0040		0.0040	0.0017	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Bromoform	<0.0040		0.0040	0.00092	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Chloromethane	<0.0040		0.0040	0.00084	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
1,1-Dichloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
1,1,1-Dichloroethane	<0.0040		0.0040	0.00065	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Ethylbenzene	<0.0040		0.0040	0.00081	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00066	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Tetrachloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Vinyl chloride	<0.0040		0.0040	0.00084	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1
Xylenes, Total	<0.0080		0.0080	0.00036	mg/Kg	☼	09/04/13 14:25	09/06/13 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/04/13 14:25	09/06/13 20:03	1
Dibromofluoromethane	104		75 - 120	09/04/13 14:25	09/06/13 20:03	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	09/04/13 14:25	09/06/13 20:03	1
Toluene-d8 (Surr)	97		75 - 122	09/04/13 14:25	09/06/13 20:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-3

Client Sample ID: 846D-60-B01-1

Lab Sample ID: 500-62388-8

Date Collected: 09/04/13 14:25

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Pentachlorophenol	<0.75	*	0.75	0.19	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-3

Client Sample ID: 846D-60-B01-1

Lab Sample ID: 500-62388-8

Date Collected: 09/04/13 14:25

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/11/13 07:42	09/13/13 00:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		25 - 110				09/11/13 07:42	09/13/13 00:22	1
Phenol-d5	59		31 - 110				09/11/13 07:42	09/13/13 00:22	1
Nitrobenzene-d5	61		25 - 115				09/11/13 07:42	09/13/13 00:22	1
2-Fluorobiphenyl	62		25 - 119				09/11/13 07:42	09/13/13 00:22	1
2,4,6-Tribromophenol	86		35 - 137				09/11/13 07:42	09/13/13 00:22	1
Terphenyl-d14	96		36 - 134				09/11/13 07:42	09/13/13 00:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8300		10	0.97	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Antimony	<1.0		1.0	0.42	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Arsenic	7.5		0.52	0.10	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Barium	41		0.52	0.056	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Beryllium	0.62		0.21	0.019	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Boron	9.0		2.6	0.11	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Cadmium	0.43		0.10	0.013	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Calcium	94000	B	100	28	mg/Kg	☼	09/05/13 11:30	09/18/13 23:28	10
Chromium	15	B	0.52	0.061	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Cobalt	7.4	B	0.26	0.019	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Copper	20		0.52	0.047	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Iron	18000		10	4.3	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Lead	9.8		0.26	0.078	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Magnesium	23000	B	5.2	1.1	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Manganese	240	B	0.52	0.029	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Nickel	19	B	0.52	0.052	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Potassium	1900	B	26	1.6	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Selenium	0.46	J	0.52	0.19	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Sodium	150		52	7.0	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Thallium	0.35	J	0.52	0.22	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Vanadium	19	B	0.26	0.039	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1
Zinc	42	B	1.0	0.21	mg/Kg	☼	09/05/13 11:30	09/17/13 23:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/13 08:30	09/19/13 23:12	1
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/19/13 23:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-3

Client Sample ID: 846D-60-B01-1

Lab Sample ID: 500-62388-8

Date Collected: 09/04/13 14:25

Matrix: Solid

Date Received: 09/05/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		09/18/13 08:30	09/19/13 23:12	1
Manganese	0.11		0.025	0.010	mg/L		09/18/13 08:30	09/19/13 23:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.010	mg/L		09/06/13 10:30	09/14/13 16:57	1
Beryllium	0.0043		0.0040	0.0040	mg/L		09/06/13 10:30	09/14/13 16:57	1
Boron	1.5		0.10	0.050	mg/L		09/06/13 10:30	09/14/13 16:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/06/13 10:30	09/15/13 23:03	1
Chromium	0.085		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 16:57	1
Cobalt	0.023	J	0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 16:57	1
Iron	94		0.20	0.20	mg/L		09/06/13 10:30	09/14/13 16:57	1
Lead	0.044		0.0075	0.0050	mg/L		09/06/13 10:30	09/15/13 23:03	1
Manganese	0.34		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 16:57	1
Nickel	0.087		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 16:57	1
Selenium	<0.050		0.050	0.010	mg/L		09/06/13 10:30	09/14/13 16:57	1
Silver	<0.025		0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 16:57	1
Zinc	0.94	B	0.10	0.020	mg/L		09/06/13 10:30	09/14/13 16:57	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/06/13 10:30	09/10/13 15:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/06/13 10:30	09/11/13 17:11	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00010	J	0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 11:29	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0087	mg/Kg	☼	09/05/13 14:30	09/06/13 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.26		0.200	0.200	SU			09/13/13 14:58	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-3

Client Sample ID: 846D-60-B01-2

Lab Sample ID: 500-62388-9

Date Collected: 09/04/13 14:30

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 87.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Bromodichloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Bromoform	<0.0042		0.0042	0.00097	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Carbon tetrachloride	<0.0042		0.0042	0.00077	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Chloromethane	<0.0042		0.0042	0.00089	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00060	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
1,1,1-Dichloroethane	<0.0042		0.0042	0.00068	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00070	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00076	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Trichloroethene	<0.0042		0.0042	0.00070	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Vinyl chloride	<0.0042		0.0042	0.00089	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	09/04/13 14:30	09/06/13 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/04/13 14:30	09/06/13 15:29	1
Dibromofluoromethane	99		75 - 120	09/04/13 14:30	09/06/13 15:29	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/04/13 14:30	09/06/13 15:29	1
Toluene-d8 (Surr)	98		75 - 122	09/04/13 14:30	09/06/13 15:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-3

Client Sample ID: 846D-60-B01-2

Lab Sample ID: 500-62388-9

Date Collected: 09/04/13 14:30

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Pentachlorophenol	<0.75	*	0.75	0.19	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Phenanthrene	0.041		0.037	0.016	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-3

Client Sample ID: 846D-60-B01-2

Lab Sample ID: 500-62388-9

Date Collected: 09/04/13 14:30

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.037	0.0084	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Dibenz(a,h)anthracene	0.010	J	0.037	0.010	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
Benzo[g,h,i]perylene	0.026	J	0.037	0.013	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/11/13 07:42	09/13/13 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		25 - 110	09/11/13 07:42	09/13/13 00:43	1
Phenol-d5	51		31 - 110	09/11/13 07:42	09/13/13 00:43	1
Nitrobenzene-d5	50		25 - 115	09/11/13 07:42	09/13/13 00:43	1
2-Fluorobiphenyl	61		25 - 119	09/11/13 07:42	09/13/13 00:43	1
2,4,6-Tribromophenol	62		35 - 137	09/11/13 07:42	09/13/13 00:43	1
Terphenyl-d14	92		36 - 134	09/11/13 07:42	09/13/13 00:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7800		11	1.0	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Arsenic	8.1		0.57	0.11	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Barium	38		0.57	0.061	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Beryllium	0.69		0.23	0.020	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Boron	10		2.8	0.12	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Cadmium	0.43		0.11	0.014	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Calcium	55000	B	11	3.1	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Chromium	14	B	0.57	0.066	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Cobalt	6.5	B	0.28	0.020	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Copper	19		0.57	0.051	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Iron	19000		11	4.7	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Lead	11		0.28	0.085	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Magnesium	25000	B	5.7	1.2	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Manganese	290	B	0.57	0.031	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Nickel	22	B	0.57	0.056	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Potassium	2200	B	28	1.7	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Selenium	0.68		0.57	0.20	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Silver	0.058	J B	0.28	0.021	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Sodium	130		57	7.6	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Thallium	0.30	J	0.57	0.24	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Vanadium	18	B	0.28	0.042	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1
Zinc	51	B	1.1	0.23	mg/Kg	☼	09/05/13 11:30	09/18/13 00:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/19/13 23:18	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/18/13 08:30	09/19/13 23:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-3

Client Sample ID: 846D-60-B01-2

Lab Sample ID: 500-62388-9

Date Collected: 09/04/13 14:30

Matrix: Solid

Date Received: 09/05/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.8		0.025	0.010	mg/L		09/18/13 08:30	09/19/13 23:18	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.92		0.50	0.010	mg/L		09/06/13 10:30	09/14/13 17:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/06/13 10:30	09/14/13 17:03	1
Boron	1.5		0.10	0.050	mg/L		09/06/13 10:30	09/14/13 17:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/06/13 10:30	09/15/13 23:07	1
Chromium	0.029		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 17:03	1
Cobalt	0.011	J	0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 17:03	1
Iron	17		0.20	0.20	mg/L		09/06/13 10:30	09/14/13 17:03	1
Lead	0.013		0.0075	0.0050	mg/L		09/06/13 10:30	09/15/13 23:07	1
Manganese	0.18		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 17:03	1
Nickel	0.028		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 17:03	1
Selenium	<0.050		0.050	0.010	mg/L		09/06/13 10:30	09/14/13 17:03	1
Silver	<0.025		0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 17:03	1
Zinc	0.80	B	0.10	0.020	mg/L		09/06/13 10:30	09/14/13 17:03	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/06/13 10:30	09/10/13 15:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/06/13 10:30	09/11/13 17:12	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000021	J	0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 11:31	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.018	0.0085	mg/Kg	☼	09/05/13 14:30	09/06/13 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.94		0.200	0.200	SU			09/13/13 15:04	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13711 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59941 Longitude: -87.95175
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59941 Longitude: -87.95175

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-61-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-61. SEE FIGURE 12 AND TABLE 3ay OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-62388-4

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62388-4
Client Project/Site: IDOT - Gougar Road - WO 023
Revision: 1

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/23/2013 4:23:41 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-4

Client Sample ID: 846D-61-B01

Lab Sample ID: 500-62388-10

Date Collected: 09/04/13 11:20

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 93.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	09/04/13 11:20	09/06/13 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	09/04/13 11:20	09/06/13 15:52	1
Dibromofluoromethane	103		75 - 120	09/04/13 11:20	09/06/13 15:52	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	09/04/13 11:20	09/06/13 15:52	1
Toluene-d8 (Surr)	95		75 - 122	09/04/13 11:20	09/06/13 15:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.054	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-4

Client Sample ID: 846D-61-B01

Lab Sample ID: 500-62388-10

Date Collected: 09/04/13 11:20

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 93.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Naphthalene	<0.034		0.034	0.0066	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
4-Chloroaniline	<0.69		0.69	0.10	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
2,4,5-Trichlorophenol	<0.34		0.34	0.098	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Hexachlorocyclopentadiene	<0.69		0.69	0.16	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
2,4-Dinitrophenol	<0.69		0.69	0.18	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Acenaphthylene	<0.034		0.034	0.0079	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
4-Nitrophenol	<0.69		0.69	0.18	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Fluorene	<0.034		0.034	0.0078	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
4-Nitroaniline	<0.34		0.34	0.070	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Hexachlorobenzene	<0.069		0.069	0.0067	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Pentachlorophenol	<0.69	*	0.69	0.17	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.083	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Anthracene	<0.034		0.034	0.0080	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Benzo[a]anthracene	<0.034		0.034	0.0072	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-4

Client Sample ID: 846D-61-B01

Lab Sample ID: 500-62388-10

Date Collected: 09/04/13 11:20

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 93.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.034		0.034	0.0077	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Di-n-octyl phthalate	<0.17		0.17	0.069	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Benzo[b]fluoranthene	<0.034		0.034	0.0066	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Benzo[k]fluoranthene	<0.034		0.034	0.0082	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Benzo[a]pyrene	<0.034		0.034	0.0062	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.012	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0096	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
Benzo[g,h,i]perylene	<0.034		0.034	0.012	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1
3 & 4 Methylphenol	<0.17		0.17	0.065	mg/Kg	☼	09/11/13 07:42	09/13/13 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		25 - 110	09/11/13 07:42	09/13/13 01:03	1
Phenol-d5	63		31 - 110	09/11/13 07:42	09/13/13 01:03	1
Nitrobenzene-d5	72		25 - 115	09/11/13 07:42	09/13/13 01:03	1
2-Fluorobiphenyl	77		25 - 119	09/11/13 07:42	09/13/13 01:03	1
2,4,6-Tribromophenol	79		35 - 137	09/11/13 07:42	09/13/13 01:03	1
Terphenyl-d14	107		36 - 134	09/11/13 07:42	09/13/13 01:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1200		52	4.7	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Antimony	<5.2		5.2	2.1	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Arsenic	2.0	J	2.6	0.51	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Barium	3.6		2.6	0.28	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Beryllium	0.19	J	1.0	0.091	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Boron	16		13	0.54	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Cadmium	<0.52		0.52	0.066	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Calcium	210000	B	52	14	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Chromium	2.9	B ^	2.6	0.30	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Cobalt	1.5	B	1.3	0.092	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Copper	0.95	J	2.6	0.23	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Iron	3900		52	21	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Lead	0.40	J	1.3	0.38	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Magnesium	120000	B	26	5.3	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Manganese	260	B	2.6	0.14	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Nickel	2.7	B	2.6	0.25	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Potassium	970	B	130	7.8	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Selenium	<2.6		2.6	0.92	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Silver	0.25	J B	1.3	0.093	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Sodium	250	J	260	35	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Thallium	<2.6		2.6	1.1	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Vanadium	4.8	B	1.3	0.19	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5
Zinc	2.5	J B	5.2	1.0	mg/Kg	☼	09/05/13 11:30	09/18/13 23:34	5

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68		0.50	0.010	mg/L		09/06/13 10:30	09/14/13 17:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/06/13 10:30	09/14/13 17:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-4

Client Sample ID: 846D-61-B01

Lab Sample ID: 500-62388-10

Date Collected: 09/04/13 11:20

Matrix: Solid

Date Received: 09/05/13 06:30

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.2		0.10	0.050	mg/L		09/06/13 10:30	09/14/13 17:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/06/13 10:30	09/15/13 23:11	1
Chromium	<0.025		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 17:24	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 17:24	1
Iron	0.21		0.20	0.20	mg/L		09/06/13 10:30	09/14/13 17:24	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/06/13 10:30	09/15/13 23:11	1
Manganese	<0.025		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 17:24	1
Nickel	<0.025		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 17:24	1
Selenium	<0.050		0.050	0.010	mg/L		09/06/13 10:30	09/14/13 17:24	1
Silver	<0.025		0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 17:24	1
Zinc	0.64	B	0.10	0.020	mg/L		09/06/13 10:30	09/14/13 17:24	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/06/13 10:30	09/10/13 15:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/06/13 10:30	09/11/13 17:13	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 11:33	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0076	mg/Kg	☼	09/05/13 14:30	09/06/13 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.68		0.200	0.200	SU			09/13/13 15:10	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-4

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13654 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59964 Longitude: -87.95149
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Additional BOL: 1978070001

IEPA Site Number(s), if assigned: BOL: 1970500031 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)Latitude: 41.59964 Longitude: -87.95149Uncontaminated Site Certification**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-63-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-63. SEE FIGURE 12 AND TABLE 3ba OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-62293-1

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

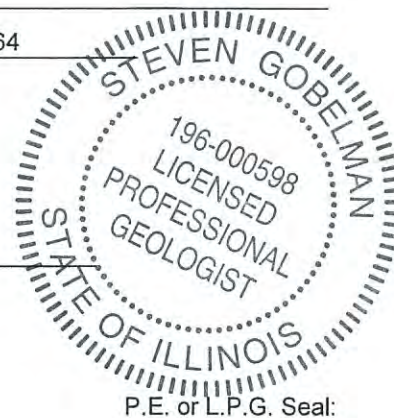
I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman

Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date: 11/15/14

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-63

Parker Ridge Enterprises

Sample ID	846D-63-B01-1	846D-63-B01-2	846D-63-B02-1	846D-63-B02-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	5-10	0-5	5-10						
Sample Date	9/3/2013	9/3/2013	9/3/2013	9/3/2013						
PID	0	0	0	0						
Sample pH	8.5	7.86	7.66	7.75						
Matrix	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62293-1
Client Project/Site: IDOT - Gougar Road - WO 023
Revision: 1

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/24/2013 8:58:19 AM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B01-1

Lab Sample ID: 500-62293-1

Date Collected: 09/03/13 09:00

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0023	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Bromodichloromethane	<0.0054		0.0054	0.00094	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Bromoform	<0.0054		0.0054	0.0013	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
2-Butanone (MEK)	<0.0054		0.0054	0.0020	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Carbon disulfide	<0.0054		0.0054	0.00081	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Carbon tetrachloride	<0.0054		0.0054	0.00099	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Chloroform	<0.0054		0.0054	0.00063	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00077	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Dibromochloromethane	<0.0054		0.0054	0.00095	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
1,1-Dichloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
1,2-Dichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
1,1-Dichloroethene	<0.0054		0.0054	0.00088	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
1,2-Dichloropropane	<0.0054		0.0054	0.00083	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00090	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
1,1,1,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Tetrachloroethene	<0.0054		0.0054	0.00083	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Toluene	<0.0054		0.0054	0.00076	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00075	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00097	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00074	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Trichloroethene	<0.0054		0.0054	0.00090	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Vinyl acetate	<0.0054		0.0054	0.00085	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	09/03/13 09:00	09/05/13 11:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/03/13 09:00	09/05/13 11:15	1
Dibromofluoromethane	95		75 - 120	09/03/13 09:00	09/05/13 11:15	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/03/13 09:00	09/05/13 11:15	1
Toluene-d8 (Surr)	95		75 - 122	09/03/13 09:00	09/05/13 11:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B01-1

Lab Sample ID: 500-62293-1

Date Collected: 09/03/13 09:00

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B01-1

Lab Sample ID: 500-62293-1

Date Collected: 09/03/13 09:00

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.036	0.0082	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
Benzo[g,h,i]perylene	0.018	J	0.036	0.012	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	09/07/13 15:06	09/11/13 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		25 - 110	09/07/13 15:06	09/11/13 18:25	1
Phenol-d5	77		31 - 110	09/07/13 15:06	09/11/13 18:25	1
Nitrobenzene-d5	67		25 - 115	09/07/13 15:06	09/11/13 18:25	1
2-Fluorobiphenyl	68		25 - 119	09/07/13 15:06	09/11/13 18:25	1
2,4,6-Tribromophenol	48		35 - 137	09/07/13 15:06	09/11/13 18:25	1
Terphenyl-d14	83		36 - 134	09/07/13 15:06	09/11/13 18:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8000	B	11	1.0	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Arsenic	4.7		0.54	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Barium	37		0.54	0.058	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Beryllium	0.63		0.22	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Boron	9.2		2.7	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Cadmium	0.23	B	0.11	0.014	mg/Kg	☼	09/04/13 11:30	09/15/13 14:27	1
Calcium	48000	B	11	2.9	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Chromium	14		0.54	0.063	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Cobalt	8.1		0.27	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Copper	24	B	0.54	0.048	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Iron	16000	B	11	4.5	mg/Kg	☼	09/04/13 11:30	09/15/13 14:27	1
Lead	15	B	0.27	0.081	mg/Kg	☼	09/04/13 11:30	09/15/13 14:27	1
Magnesium	22000	B	5.4	1.1	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Manganese	340	B	0.54	0.029	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Nickel	20		0.54	0.053	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Potassium	1600		27	1.6	mg/Kg	☼	09/04/13 11:30	09/15/13 14:27	1
Selenium	0.87		0.54	0.19	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Sodium	120		54	7.3	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Thallium	0.52	J	0.54	0.23	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Vanadium	19		0.27	0.040	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1
Zinc	42	B	1.1	0.22	mg/Kg	☼	09/04/13 11:30	09/14/13 21:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/13 08:30	09/18/13 17:53	1
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 17:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B01-1

Lab Sample ID: 500-62293-1

Date Collected: 09/03/13 09:00

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 17:53	1
Manganese	0.59		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 17:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28	J B	0.50	0.010	mg/L		09/05/13 10:30	09/13/13 22:30	1
Beryllium	0.0044		0.0040	0.0040	mg/L		09/05/13 10:30	09/13/13 22:30	1
Boron	0.13		0.10	0.050	mg/L		09/05/13 10:30	09/13/13 22:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/13/13 22:30	1
Chromium	0.087		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 22:30	1
Cobalt	0.022	J	0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 22:30	1
Iron	94		0.20	0.20	mg/L		09/05/13 10:30	09/13/13 22:30	1
Lead	0.049		0.0075	0.0050	mg/L		09/05/13 10:30	09/13/13 22:30	1
Manganese	0.38		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 22:30	1
Nickel	0.085		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 22:30	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/13/13 22:30	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 22:30	1
Zinc	0.25		0.10	0.020	mg/L		09/05/13 10:30	09/13/13 22:30	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/13 08:30	09/19/13 11:55	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 11:59	1
Thallium	0.0027		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 11:59	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00010	J ^	0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 09:10	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0090	mg/Kg	☼	09/04/13 14:30	09/05/13 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.50		0.200	0.200	SU			09/12/13 16:10	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B01-2

Lab Sample ID: 500-62293-2

Date Collected: 09/03/13 09:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0047		0.0043	0.0018	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Benzene	<0.0043		0.0043	0.00058	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Bromoform	<0.0043		0.0043	0.00098	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Carbon tetrachloride	<0.0043		0.0043	0.00077	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Chloromethane	<0.0043		0.0043	0.00089	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Dibromochloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
1,1-Dichloroethane	<0.0043		0.0043	0.00067	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
1,1-Dichloroethene	<0.0043		0.0043	0.00069	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Ethylbenzene	<0.0043		0.0043	0.00086	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Methylene Chloride	<0.0043		0.0043	0.0011	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00070	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00086	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Tetrachloroethene	<0.0043		0.0043	0.00065	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00076	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Trichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Vinyl chloride	<0.0043		0.0043	0.00089	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1
Xylenes, Total	<0.0085		0.0085	0.00039	mg/Kg	☼	09/03/13 09:10	09/05/13 11:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	09/03/13 09:10	09/05/13 11:38	1
Dibromofluoromethane	99		75 - 120	09/03/13 09:10	09/05/13 11:38	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/03/13 09:10	09/05/13 11:38	1
Toluene-d8 (Surr)	98		75 - 122	09/03/13 09:10	09/05/13 11:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B01-2

Lab Sample ID: 500-62293-2

Date Collected: 09/03/13 09:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Hexachlorobenzene	<0.073		0.073	0.0072	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Pyrene	0.015	J	0.036	0.013	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B01-2

Lab Sample ID: 500-62293-2

Date Collected: 09/03/13 09:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.023	J	0.036	0.0082	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
Benzo[g,h,i]perylene	0.020	J	0.036	0.012	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	09/07/13 15:06	09/11/13 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		25 - 110	09/07/13 15:06	09/11/13 18:46	1
Phenol-d5	69		31 - 110	09/07/13 15:06	09/11/13 18:46	1
Nitrobenzene-d5	56		25 - 115	09/07/13 15:06	09/11/13 18:46	1
2-Fluorobiphenyl	58		25 - 119	09/07/13 15:06	09/11/13 18:46	1
2,4,6-Tribromophenol	64		35 - 137	09/07/13 15:06	09/11/13 18:46	1
Terphenyl-d14	74		36 - 134	09/07/13 15:06	09/11/13 18:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6400	B	11	0.98	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Arsenic	6.2		0.53	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Barium	22		0.53	0.057	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Beryllium	0.60		0.21	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Boron	9.4		2.6	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Cadmium	0.22	B	0.11	0.013	mg/Kg	☼	09/04/13 11:30	09/15/13 14:59	1
Calcium	80000		110	29	mg/Kg	☼	09/04/13 11:30	09/15/13 15:04	10
Chromium	13		0.53	0.061	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Cobalt	7.1		0.26	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Copper	21	B	0.53	0.047	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Iron	14000	B	11	4.4	mg/Kg	☼	09/04/13 11:30	09/15/13 14:59	1
Lead	12	B	0.26	0.079	mg/Kg	☼	09/04/13 11:30	09/15/13 14:59	1
Magnesium	31000	B	5.3	1.1	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Manganese	320	B	0.53	0.029	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Nickel	20		0.53	0.052	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Potassium	1400		26	1.6	mg/Kg	☼	09/04/13 11:30	09/15/13 14:59	1
Selenium	0.69		0.53	0.19	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Sodium	120		53	7.1	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Thallium	0.56		0.53	0.22	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Vanadium	16		0.26	0.039	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1
Zinc	43	B	1.1	0.21	mg/Kg	☼	09/04/13 11:30	09/14/13 21:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 18:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B01-2

Lab Sample ID: 500-62293-2

Date Collected: 09/03/13 09:10

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.062	J B	0.50	0.010	mg/L		09/05/13 10:30	09/13/13 22:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/13/13 22:55	1
Boron	0.071	J	0.10	0.050	mg/L		09/05/13 10:30	09/13/13 22:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/13/13 22:55	1
Chromium	<0.025		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 22:55	1
Cobalt	0.0051	J	0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 22:55	1
Iron	8.8		0.20	0.20	mg/L		09/05/13 10:30	09/13/13 22:55	1
Lead	0.0056	J	0.0075	0.0050	mg/L		09/05/13 10:30	09/13/13 22:55	1
Manganese	0.053		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 22:55	1
Nickel	0.012	J	0.025	0.010	mg/L		09/05/13 10:30	09/13/13 22:55	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/13/13 22:55	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 22:55	1
Zinc	0.063	J	0.10	0.020	mg/L		09/05/13 10:30	09/13/13 22:55	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 12:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 12:18	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^	0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 09:12	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0083	mg/Kg	✱	09/04/13 14:30	09/05/13 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86		0.200	0.200	SU			09/12/13 16:15	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B02-1

Lab Sample ID: 500-62293-3

Date Collected: 09/03/13 09:30

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.023		0.0043	0.0019	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
1,1-Dichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	09/03/13 09:30	09/05/13 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	09/03/13 09:30	09/05/13 12:01	1
Dibromofluoromethane	97		75 - 120	09/03/13 09:30	09/05/13 12:01	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/03/13 09:30	09/05/13 12:01	1
Toluene-d8 (Surr)	99		75 - 122	09/03/13 09:30	09/05/13 12:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B02-1

Lab Sample ID: 500-62293-3

Date Collected: 09/03/13 09:30

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Pyrene	0.015	J	0.038	0.014	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B02-1

Lab Sample ID: 500-62293-3

Date Collected: 09/03/13 09:30

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.026	J	0.038	0.0086	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Benzo[a]pyrene	0.0094	J	0.038	0.0069	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
Benzo[g,h,i]perylene	0.023	J	0.038	0.013	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/07/13 15:06	09/11/13 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		25 - 110	09/07/13 15:06	09/11/13 19:07	1
Phenol-d5	75		31 - 110	09/07/13 15:06	09/11/13 19:07	1
Nitrobenzene-d5	66		25 - 115	09/07/13 15:06	09/11/13 19:07	1
2-Fluorobiphenyl	67		25 - 119	09/07/13 15:06	09/11/13 19:07	1
2,4,6-Tribromophenol	75		35 - 137	09/07/13 15:06	09/11/13 19:07	1
Terphenyl-d14	77		36 - 134	09/07/13 15:06	09/11/13 19:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6200	B	12	1.1	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Arsenic	5.2		0.58	0.12	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Barium	29		0.58	0.062	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Beryllium	0.49		0.23	0.021	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Boron	8.1		2.9	0.12	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Cadmium	0.18	B	0.12	0.015	mg/Kg	☼	09/04/13 11:30	09/15/13 15:08	1
Calcium	44000	B	12	3.1	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Chromium	11		0.58	0.067	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Cobalt	7.6		0.29	0.021	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Copper	18	B	0.58	0.052	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Iron	13000	B	12	4.8	mg/Kg	☼	09/04/13 11:30	09/15/13 15:08	1
Lead	12	B	0.29	0.087	mg/Kg	☼	09/04/13 11:30	09/15/13 15:08	1
Magnesium	20000	B	5.8	1.2	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Manganese	320	B	0.58	0.032	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Nickel	19		0.58	0.057	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Potassium	1500		29	1.7	mg/Kg	☼	09/04/13 11:30	09/15/13 15:08	1
Selenium	0.77		0.58	0.21	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Silver	0.044	J	0.29	0.021	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Sodium	120		58	7.8	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Thallium	0.60		0.58	0.25	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Vanadium	14		0.29	0.043	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1
Zinc	39	B	1.2	0.23	mg/Kg	☼	09/04/13 11:30	09/14/13 22:05	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.54	B	0.50	0.010	mg/L		09/05/13 10:30	09/13/13 23:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/13/13 23:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B02-1

Lab Sample ID: 500-62293-3

Date Collected: 09/03/13 09:30

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.81		0.10	0.050	mg/L		09/05/13 10:30	09/13/13 23:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/13/13 23:01	1
Chromium	<0.025		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:01	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 23:01	1
Iron	<0.20		0.20	0.20	mg/L		09/05/13 10:30	09/13/13 23:01	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/05/13 10:30	09/13/13 23:01	1
Manganese	0.13		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:01	1
Nickel	0.014	J	0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:01	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/13/13 23:01	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 23:01	1
Zinc	0.39		0.10	0.020	mg/L		09/05/13 10:30	09/13/13 23:01	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 12:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 12:20	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 09:51	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.0091	mg/Kg	☼	09/04/13 14:30	09/05/13 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.66		0.200	0.200	SU			09/12/13 16:20	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B02-2

Lab Sample ID: 500-62293-4

Date Collected: 09/03/13 09:40

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	09/03/13 09:40	09/05/13 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	09/03/13 09:40	09/05/13 12:24	1
Dibromofluoromethane	99		75 - 120	09/03/13 09:40	09/05/13 12:24	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/03/13 09:40	09/05/13 12:24	1
Toluene-d8 (Surr)	98		75 - 122	09/03/13 09:40	09/05/13 12:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.065	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B02-2

Lab Sample ID: 500-62293-4

Date Collected: 09/03/13 09:40

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
4-Chloroaniline	<0.83		0.83	0.12	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Acenaphthylene	<0.041		0.041	0.0094	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Benzo[a]anthracene	<0.041		0.041	0.0086	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B02-2

Lab Sample ID: 500-62293-4

Date Collected: 09/03/13 09:40

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.0093	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Benzo[b]fluoranthene	<0.041		0.041	0.0080	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Benzo[k]fluoranthene	<0.041		0.041	0.0098	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Benzo[a]pyrene	<0.041		0.041	0.0075	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	09/07/13 15:06	09/11/13 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		25 - 110				09/07/13 15:06	09/11/13 19:29	1
Phenol-d5	55		31 - 110				09/07/13 15:06	09/11/13 19:29	1
Nitrobenzene-d5	55		25 - 115				09/07/13 15:06	09/11/13 19:29	1
2-Fluorobiphenyl	53		25 - 119				09/07/13 15:06	09/11/13 19:29	1
2,4,6-Tribromophenol	46		35 - 137				09/07/13 15:06	09/11/13 19:29	1
Terphenyl-d14	69		36 - 134				09/07/13 15:06	09/11/13 19:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000	B	11	1.0	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Arsenic	5.3		0.57	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Barium	95		0.57	0.061	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Beryllium	0.86		0.23	0.020	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Boron	2.3	J	2.8	0.12	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Cadmium	0.25	B	0.11	0.014	mg/Kg	☼	09/04/13 11:30	09/15/13 15:13	1
Calcium	4400	B	11	3.1	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Chromium	16		0.57	0.066	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Cobalt	5.9		0.28	0.020	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Copper	21	B	0.57	0.050	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Iron	15000	B	11	4.7	mg/Kg	☼	09/04/13 11:30	09/15/13 15:13	1
Lead	17	B	0.28	0.084	mg/Kg	☼	09/04/13 11:30	09/15/13 15:13	1
Magnesium	4000	B	5.7	1.2	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Manganese	120	B	0.57	0.031	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Nickel	19		0.57	0.056	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Potassium	650		28	1.7	mg/Kg	☼	09/04/13 11:30	09/15/13 15:13	1
Selenium	0.76		0.57	0.20	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Sodium	230		57	7.6	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Vanadium	22		0.28	0.042	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1
Zinc	52	B	1.1	0.23	mg/Kg	☼	09/04/13 11:30	09/14/13 22:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.25		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 18:19	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 18:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Client Sample ID: 846D-63-B02-2

Lab Sample ID: 500-62293-4

Date Collected: 09/03/13 09:40

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71	B	0.50	0.010	mg/L		09/05/13 10:30	09/13/13 23:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/13/13 23:07	1
Boron	0.74		0.10	0.050	mg/L		09/05/13 10:30	09/13/13 23:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/13/13 23:07	1
Chromium	0.058		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:07	1
Cobalt	0.010	J	0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 23:07	1
Iron	48		0.20	0.20	mg/L		09/05/13 10:30	09/13/13 23:07	1
Lead	0.027		0.0075	0.0050	mg/L		09/05/13 10:30	09/13/13 23:07	1
Manganese	0.13		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:07	1
Nickel	0.038		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:07	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/13/13 23:07	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 23:07	1
Zinc	0.42		0.10	0.020	mg/L		09/05/13 10:30	09/13/13 23:07	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 12:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 12:23	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000061	J	0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 09:53	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.019	0.0091	mg/Kg	✱	09/04/13 14:30	09/05/13 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.75		0.200	0.200	SU			09/12/13 16:25	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact	Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-e.com	Laboratory	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>US6 / IL7 Will & Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: _____ of _____ Lab Job No.: <u>500-62293</u> Sample Temp: <u>3, 4, 3, 7, 3, 8, 3, 5</u> Matrix Key:	

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments										
					VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization									
1	846D-63-B01-1	9/3/13	0900	S	X	X						X	X	X											
2	846D-63-B01-2	9/3/13	0910	S	X	X						X	X	X											
3	846D-63-B02-1	9/3/13	0930	S	X	X						X	X	X											
4	846D-63-B02-2	9/3/13	0940	S	X	X						X	X	X											
5	846D-63-B03-1	9/3/13	0830	S	X	X						X	X	X											
6	846D-63-B03-2	9/3/13	0845	S	X	X						X	X	X											

Relinquished by: <i>Richard P. McQuinn</i>	Date/Time: 9/3/13 @ 1620	Received by: <i>[Signature]</i>	Date/Time: 9/3/13 1620
Relinquished by: <i>[Signature]</i>	Date/Time: 9/3/13 1700	Received by: <i>[Signature]</i>	Date/Time: 9/3/13 0630
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13639 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59939 Longitude: -87.95119

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59939 Longitude: -87.95119

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-64-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-64. SEE FIGURES 12 & 13, AND TABLE 3bb OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-62388-6

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

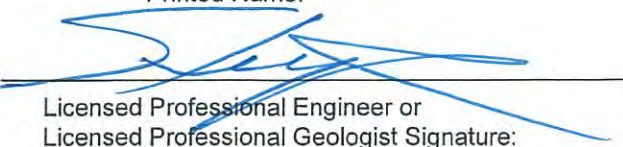
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

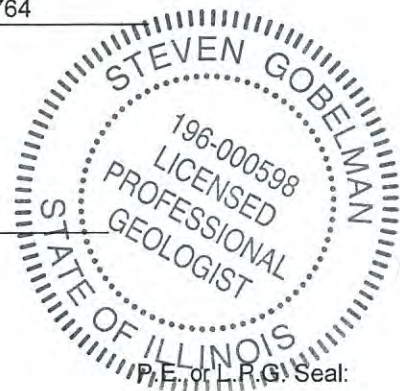
Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-62388-6

Client Project/Site: IDOT - Gougar Road - WO 023

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

10/23/2013 4:25:11 PM

Richard Wright, Project Manager II

(708)534-5200

richard.wright@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-6

Client Sample ID: 846D-64-B01

Lab Sample ID: 500-62388-16

Date Collected: 09/04/13 11:10

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 82.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.0049	0.0021	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	09/04/13 11:10	09/06/13 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/04/13 11:10	09/06/13 18:09	1
Dibromofluoromethane	104		75 - 120	09/04/13 11:10	09/06/13 18:09	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	09/04/13 11:10	09/06/13 18:09	1
Toluene-d8 (Surr)	95		75 - 122	09/04/13 11:10	09/06/13 18:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-6

Client Sample ID: 846D-64-B01

Lab Sample ID: 500-62388-16

Date Collected: 09/04/13 11:10

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 82.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Pentachlorophenol	<0.77	*	0.77	0.19	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-6

Client Sample ID: 846D-64-B01

Lab Sample ID: 500-62388-16

Date Collected: 09/04/13 11:10

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 82.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.038	0.0086	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Benzo[b]fluoranthene	0.011	J	0.038	0.0074	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/11/13 07:42	09/13/13 03:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110				09/11/13 07:42	09/13/13 03:06	1
Phenol-d5	56		31 - 110				09/11/13 07:42	09/13/13 03:06	1
Nitrobenzene-d5	61		25 - 115				09/11/13 07:42	09/13/13 03:06	1
2-Fluorobiphenyl	65		25 - 119				09/11/13 07:42	09/13/13 03:06	1
2,4,6-Tribromophenol	83		35 - 137				09/11/13 07:42	09/13/13 03:06	1
Terphenyl-d14	101		36 - 134				09/11/13 07:42	09/13/13 03:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		11	1.0	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Arsenic	7.3		0.56	0.11	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Barium	56		0.56	0.059	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Beryllium	0.65		0.22	0.020	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Boron	6.5		2.8	0.12	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Cadmium	0.44		0.11	0.014	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Calcium	34000	B	11	3.0	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Chromium	16	B	0.56	0.064	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Cobalt	8.5	B	0.28	0.020	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Copper	21		0.56	0.049	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Iron	18000		11	4.6	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Lead	14		0.28	0.083	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Magnesium	18000	B	5.6	1.1	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Manganese	380	B	0.56	0.030	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Nickel	23	B	0.56	0.054	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Potassium	1600	B	28	1.7	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Selenium	0.78		0.56	0.20	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Sodium	120		56	7.4	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Thallium	0.52	J	0.56	0.23	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Vanadium	21	B	0.28	0.041	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1
Zinc	52	B	1.1	0.22	mg/Kg	☼	09/05/13 11:30	09/18/13 01:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/19/13 23:52	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/18/13 08:30	09/19/13 23:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-6

Client Sample ID: 846D-64-B01

Lab Sample ID: 500-62388-16

Date Collected: 09/04/13 11:10

Matrix: Solid

Date Received: 09/05/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.25		0.025	0.010	mg/L		09/18/13 08:30	09/19/13 23:52	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.89		0.50	0.010	mg/L		09/06/13 10:30	09/14/13 18:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/06/13 10:30	09/14/13 18:20	1
Boron	1.2		0.10	0.050	mg/L		09/06/13 10:30	09/14/13 18:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/06/13 10:30	09/15/13 23:57	1
Chromium	0.072		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 18:20	1
Cobalt	0.018	J	0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 18:20	1
Iron	69		0.20	0.20	mg/L		09/06/13 10:30	09/14/13 18:20	1
Lead	0.043		0.0075	0.0050	mg/L		09/06/13 10:30	09/15/13 23:57	1
Manganese	0.30		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 18:20	1
Nickel	0.063		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 18:20	1
Selenium	<0.050		0.050	0.010	mg/L		09/06/13 10:30	09/14/13 18:20	1
Silver	<0.025		0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 18:20	1
Zinc	0.80	B	0.10	0.020	mg/L		09/06/13 10:30	09/14/13 18:20	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/06/13 10:30	09/10/13 16:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/06/13 10:30	09/11/13 17:23	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000095	J	0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 11:49	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0089	mg/Kg	☼	09/05/13 14:30	09/06/13 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU			09/13/13 15:51	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-6

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13550 to 13650 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59978 Longitude: -87.94947
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 1978070001 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)Latitude: 41.59978 Longitude: -87.94947Uncontaminated Site Certification**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-65-B01, -B02, -B03, -B04, -B05 AND -B07 WERE SAMPLED ADJACENT TO SITE NO. 846D-65. SEE FIGURES 12, 13 & 24, AND TABLE 3bc OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-62293-2

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

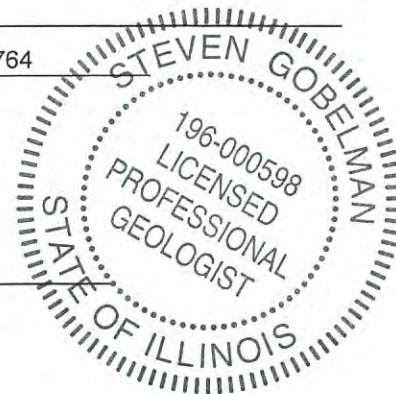
I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date: 11/13/14

P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-65

Farmland and Vacant Area

Sample ID	846D-65-B01-1	846D-65-B01-2	846D-65-B01-2 DUP	846D-65-B02-1	846D-65-B02-2						
Sample Depth (ft)	0-5	5-10	5-10	0-5	5-10						
Sample Date	9/3/2013	9/3/2013	9/3/2013	9/3/2013	9/3/2013						
PID	0	0	0	0	0						
Sample pH	7.77	8.28	8.37	7.41	8.24						
Matrix	Soil	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

Sample ID	846D-65-B03-1	846D-65-B03-2	846D-65-B04-1	846D-65-B04-2							
Sample Depth (ft)	0-5	5-10	0-5	5-10							
Sample Date	9/3/2013	9/3/2013	9/3/2013	9/3/2013							
PID	0	0	0	0							
Sample pH	7.82	7.8	8.23	8.46							
Matrix	Soil	Soil	Soil	Soil							

No Contaminants of Concern Noted.

Sample ID	846D-65-B05-1	846D-65-B05-2	846D-65-B07-1	846D-65-B07-2							
Sample Depth (ft)	0-5	5-10	0-5	5-10							
Sample Date	9/3/2013	9/3/2013	9/3/2013	9/3/2013							
PID	0	0	0	0							
Sample pH	8.27	8.32	8.1	8.14							
Matrix	Soil	Soil	Soil	Soil							

No Contaminants of Concern Noted.

	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only

	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only

	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62293-2
Client Project/Site: IDOT - Gougar Road - WO 023
Revision: 1

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/24/2013 9:21:45 AM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B01-1

Lab Sample ID: 500-62293-7

Date Collected: 09/03/13 09:45

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00062	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00062	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0012	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Styrene	<0.0048		0.0048	0.00062	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	09/03/13 09:45	09/05/13 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/03/13 09:45	09/05/13 13:33	1
Dibromofluoromethane	98		75 - 120	09/03/13 09:45	09/05/13 13:33	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/03/13 09:45	09/05/13 13:33	1
Toluene-d8 (Surr)	95		75 - 122	09/03/13 09:45	09/05/13 13:33	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B01-1

Lab Sample ID: 500-62293-7

Date Collected: 09/03/13 09:45

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B01-1

Lab Sample ID: 500-62293-7

Date Collected: 09/03/13 09:45

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/07/13 15:06	09/11/13 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110	09/07/13 15:06	09/11/13 20:32	1
Phenol-d5	52		31 - 110	09/07/13 15:06	09/11/13 20:32	1
Nitrobenzene-d5	47		25 - 115	09/07/13 15:06	09/11/13 20:32	1
2-Fluorobiphenyl	50		25 - 119	09/07/13 15:06	09/11/13 20:32	1
2,4,6-Tribromophenol	54		35 - 137	09/07/13 15:06	09/11/13 20:32	1
Terphenyl-d14	68		36 - 134	09/07/13 15:06	09/11/13 20:32	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00081	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
alpha-Chlordane	<0.0020		0.0020	0.00098	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
Endosulfan I	<0.0020		0.0020	0.00085	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
Heptachlor	<0.0020		0.0020	0.00082	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
Methoxychlor	<0.0097		0.0097	0.00038	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1
Toxaphene	<0.019		0.019	0.0082	mg/Kg	☼	09/12/13 07:33	09/17/13 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	63		56 - 128	09/12/13 07:33	09/17/13 00:27	1
Tetrachloro-m-xylene	54		45 - 112	09/12/13 07:33	09/17/13 00:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B01-1

Lab Sample ID: 500-62293-7

Date Collected: 09/03/13 09:45

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7900	B	12	1.1	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Antimony	<1.2		1.2	0.48	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Arsenic	5.5		0.59	0.12	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Barium	39		0.59	0.063	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Beryllium	0.61		0.24	0.021	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Boron	8.2		3.0	0.12	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Cadmium	0.26	B	0.12	0.015	mg/Kg	☼	09/04/13 11:30	09/15/13 15:32	1
Calcium	41000	B	12	3.2	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Chromium	14		0.59	0.069	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Cobalt	9.5		0.30	0.021	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Copper	23	B	0.59	0.053	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Iron	19000	B	12	4.9	mg/Kg	☼	09/04/13 11:30	09/15/13 15:32	1
Lead	14	B	0.30	0.088	mg/Kg	☼	09/04/13 11:30	09/15/13 15:32	1
Magnesium	19000	B	5.9	1.2	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Manganese	450	B	0.59	0.032	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Nickel	25		0.59	0.058	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Potassium	1500		30	1.8	mg/Kg	☼	09/04/13 11:30	09/15/13 15:32	1
Selenium	1.1		0.59	0.21	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Silver	0.042	J	0.30	0.021	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Sodium	110		59	7.9	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Thallium	0.44	J	0.59	0.25	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Vanadium	19		0.30	0.044	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1
Zinc	47	B	1.2	0.24	mg/Kg	☼	09/04/13 11:30	09/14/13 22:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.41		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 18:24	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 18:24	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64	B	0.50	0.010	mg/L		09/05/13 10:30	09/13/13 23:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/13/13 23:41	1
Boron	0.83		0.10	0.050	mg/L		09/05/13 10:30	09/13/13 23:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/13/13 23:41	1
Chromium	0.018	J	0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:41	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 23:41	1
Iron	14		0.20	0.20	mg/L		09/05/13 10:30	09/13/13 23:41	1
Lead	0.0079		0.0075	0.0050	mg/L		09/05/13 10:30	09/13/13 23:41	1
Manganese	0.051		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:41	1
Nickel	0.010	J	0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:41	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/13/13 23:41	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 23:41	1
Zinc	0.41		0.10	0.020	mg/L		09/05/13 10:30	09/13/13 23:41	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 12:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 12:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B01-1

Lab Sample ID: 500-62293-7

Date Collected: 09/03/13 09:45

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000024	J	0.00020	0.000020	mg/L	—	09/05/13 15:00	09/06/13 09:59	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0083	mg/Kg	☼	09/04/13 14:30	09/05/13 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77		0.200	0.200	SU	—		09/12/13 16:41	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B01-2

Lab Sample ID: 500-62293-8

Date Collected: 09/03/13 09:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Bromoform	<0.0041		0.0041	0.00093	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Chloromethane	<0.0041		0.0041	0.00085	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00053	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
1,1-Dichloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00053	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Ethylbenzene	<0.0041		0.0041	0.00082	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00067	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Styrene	<0.0041		0.0041	0.00053	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00082	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00055	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Vinyl chloride	<0.0041		0.0041	0.00085	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	09/03/13 09:50	09/05/13 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/03/13 09:50	09/05/13 13:56	1
Dibromofluoromethane	102		75 - 120	09/03/13 09:50	09/05/13 13:56	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	09/03/13 09:50	09/05/13 13:56	1
Toluene-d8 (Surr)	95		75 - 122	09/03/13 09:50	09/05/13 13:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B01-2

Lab Sample ID: 500-62293-8

Date Collected: 09/03/13 09:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.056	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Diethyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Di-n-butyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B01-2

Lab Sample ID: 500-62293-8

Date Collected: 09/03/13 09:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.037	0.0083	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Benzo[b]fluoranthene	0.0092	J	0.037	0.0072	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
Benzo[g,h,i]perylene	0.016	J	0.037	0.012	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/07/13 15:06	09/12/13 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		25 - 110	09/07/13 15:06	09/12/13 12:42	1
Phenol-d5	51		31 - 110	09/07/13 15:06	09/12/13 12:42	1
Nitrobenzene-d5	45		25 - 115	09/07/13 15:06	09/12/13 12:42	1
2-Fluorobiphenyl	56		25 - 119	09/07/13 15:06	09/12/13 12:42	1
2,4,6-Tribromophenol	34	X	35 - 137	09/07/13 15:06	09/12/13 12:42	1
Terphenyl-d14	60		36 - 134	09/07/13 15:06	09/12/13 12:42	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00076	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
alpha-Chlordane	<0.0019		0.0019	0.00093	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
beta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
4,4'-DDT	<0.0019		0.0019	0.00097	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
delta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
Endosulfan I	<0.0019		0.0019	0.00081	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
Endrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
gamma-Chlordane	<0.0019		0.0019	0.00048	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
Heptachlor	<0.0019		0.0019	0.00077	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
Heptachlor epoxide	<0.0019		0.0019	0.00065	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
Methoxychlor	<0.0091		0.0091	0.00036	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1
Toxaphene	<0.018		0.018	0.0078	mg/Kg	☼	09/12/13 07:33	09/17/13 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		56 - 128	09/12/13 07:33	09/17/13 01:26	1
Tetrachloro-m-xylene	60		45 - 112	09/12/13 07:33	09/17/13 01:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B01-2

Lab Sample ID: 500-62293-8

Date Collected: 09/03/13 09:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5900	B	11	0.99	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Arsenic	7.5		0.54	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Barium	25		0.54	0.058	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Beryllium	0.47		0.22	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Boron	9.2		2.7	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Cadmium	0.22	B	0.11	0.014	mg/Kg	☼	09/04/13 11:30	09/15/13 15:37	1
Calcium	84000		110	29	mg/Kg	☼	09/04/13 11:30	09/15/13 15:41	10
Chromium	11		0.54	0.062	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Cobalt	5.0		0.27	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Copper	21	B	0.54	0.048	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Iron	13000	B	11	4.4	mg/Kg	☼	09/04/13 11:30	09/15/13 15:37	1
Lead	13	B	0.27	0.080	mg/Kg	☼	09/04/13 11:30	09/15/13 15:37	1
Magnesium	36000	B	5.4	1.1	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Manganese	330	B	0.54	0.029	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Nickel	17		0.54	0.053	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Potassium	1400		27	1.6	mg/Kg	☼	09/04/13 11:30	09/15/13 15:37	1
Selenium	0.58		0.54	0.19	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Silver	0.029	J	0.27	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Sodium	130		54	7.2	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Thallium	0.34	J	0.54	0.23	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Vanadium	14		0.27	0.040	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1
Zinc	57	B	1.1	0.22	mg/Kg	☼	09/04/13 11:30	09/14/13 22:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 18:37	1
Lead	<0.0075	^	0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 18:37	1
Manganese	0.92		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 18:37	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68	B	0.50	0.010	mg/L		09/05/13 10:30	09/13/13 23:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/13/13 23:47	1
Boron	0.83		0.10	0.050	mg/L		09/05/13 10:30	09/13/13 23:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/13/13 23:47	1
Chromium	0.045		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:47	1
Cobalt	0.018	J	0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 23:47	1
Iron	56		0.20	0.20	mg/L		09/05/13 10:30	09/13/13 23:47	1
Lead	0.030		0.0075	0.0050	mg/L		09/05/13 10:30	09/13/13 23:47	1
Manganese	0.30		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:47	1
Nickel	0.051		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:47	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/13/13 23:47	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 23:47	1
Zinc	0.50		0.10	0.020	mg/L		09/05/13 10:30	09/13/13 23:47	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 12:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 12:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B01-2

Lab Sample ID: 500-62293-8

Date Collected: 09/03/13 09:50

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000030	J	0.00020	0.000020	mg/L	—	09/05/13 15:00	09/06/13 10:01	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0083	mg/Kg	☼	09/04/13 14:30	09/05/13 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28		0.200	0.200	SU	—		09/12/13 16:47	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B01-2 DUP

Lab Sample ID: 500-62293-9

Date Collected: 09/03/13 09:55

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.0042	0.0018	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	09/03/13 09:55	09/05/13 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/03/13 09:55	09/05/13 14:19	1
Dibromofluoromethane	101		75 - 120	09/03/13 09:55	09/05/13 14:19	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	09/03/13 09:55	09/05/13 14:19	1
Toluene-d8 (Surr)	99		75 - 122	09/03/13 09:55	09/05/13 14:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B01-2 DUP

Lab Sample ID: 500-62293-9

Date Collected: 09/03/13 09:55

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Phenanthrene	0.035	J	0.037	0.016	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Pyrene	0.013	J	0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B01-2 DUP

Lab Sample ID: 500-62293-9

Date Collected: 09/03/13 09:55

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.025	J	0.037	0.0084	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
Benzo[g,h,i]perylene	0.022	J	0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/07/13 15:06	09/12/13 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	09/07/13 15:06	09/12/13 12:58	1
Phenol-d5	53		31 - 110	09/07/13 15:06	09/12/13 12:58	1
Nitrobenzene-d5	48		25 - 115	09/07/13 15:06	09/12/13 12:58	1
2-Fluorobiphenyl	56		25 - 119	09/07/13 15:06	09/12/13 12:58	1
2,4,6-Tribromophenol	58		35 - 137	09/07/13 15:06	09/12/13 12:58	1
Terphenyl-d14	66		36 - 134	09/07/13 15:06	09/12/13 12:58	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
Endosulfan I	<0.0019		0.0019	0.00081	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
Methoxychlor	<0.0092		0.0092	0.00036	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1
Toxaphene	<0.019		0.019	0.0078	mg/Kg	☼	09/12/13 07:33	09/17/13 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		56 - 128	09/12/13 07:33	09/17/13 01:46	1
Tetrachloro-m-xylene	63		45 - 112	09/12/13 07:33	09/17/13 01:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B01-2 DUP

Lab Sample ID: 500-62293-9

Date Collected: 09/03/13 09:55

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7500	B	11	1.0	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Arsenic	5.6		0.54	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Barium	32		0.54	0.058	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Beryllium	0.58		0.22	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Boron	9.4		2.7	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Cadmium	0.20	B	0.11	0.014	mg/Kg	☼	09/04/13 11:30	09/15/13 15:53	1
Calcium	52000	B	11	2.9	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Chromium	14		0.54	0.063	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Cobalt	6.4		0.27	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Copper	20	B	0.54	0.048	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Iron	14000	B	11	4.5	mg/Kg	☼	09/04/13 11:30	09/15/13 15:53	1
Lead	13	B	0.27	0.081	mg/Kg	☼	09/04/13 11:30	09/15/13 15:53	1
Magnesium	24000	B	5.4	1.1	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Manganese	280	B	0.54	0.029	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Nickel	19		0.54	0.053	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Potassium	1600		27	1.6	mg/Kg	☼	09/04/13 11:30	09/15/13 15:53	1
Selenium	0.42	J	0.54	0.19	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Sodium	130		54	7.3	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Thallium	0.50	J	0.54	0.23	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Vanadium	17		0.27	0.040	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1
Zinc	48	B	1.1	0.22	mg/Kg	☼	09/04/13 11:30	09/14/13 22:57	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58	B	0.50	0.010	mg/L		09/05/13 10:30	09/13/13 23:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/13/13 23:53	1
Boron	0.87		0.10	0.050	mg/L		09/05/13 10:30	09/13/13 23:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/13/13 23:53	1
Chromium	<0.025		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:53	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 23:53	1
Iron	1.0		0.20	0.20	mg/L		09/05/13 10:30	09/13/13 23:53	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/05/13 10:30	09/13/13 23:53	1
Manganese	0.022	J	0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:53	1
Nickel	<0.025		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:53	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/13/13 23:53	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 23:53	1
Zinc	0.41		0.10	0.020	mg/L		09/05/13 10:30	09/13/13 23:53	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 12:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 12:36	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 10:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B01-2 DUP

Lab Sample ID: 500-62293-9

Date Collected: 09/03/13 09:55

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.6

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0082	mg/Kg	☼	09/04/13 14:30	09/05/13 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		0.200	0.200	SU			09/12/13 16:57	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B02-1

Lab Sample ID: 500-62293-10

Date Collected: 09/03/13 10:05

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 88.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	09/03/13 10:05	09/05/13 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/03/13 10:05	09/05/13 14:41	1
Dibromofluoromethane	98		75 - 120	09/03/13 10:05	09/05/13 14:41	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	09/03/13 10:05	09/05/13 14:41	1
Toluene-d8 (Surr)	95		75 - 122	09/03/13 10:05	09/05/13 14:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B02-1

Lab Sample ID: 500-62293-10

Date Collected: 09/03/13 10:05

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 88.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Hexachlorocyclopentadiene	<0.72		0.72	0.16	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Acenaphthylene	<0.035		0.035	0.0082	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B02-1

Lab Sample ID: 500-62293-10

Date Collected: 09/03/13 10:05

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 88.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Benzo[b]fluoranthene	<0.035		0.035	0.0069	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Benzo[k]fluoranthene	<0.035		0.035	0.0085	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Benzo[a]pyrene	<0.035		0.035	0.0065	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	09/07/13 15:06	09/12/13 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		25 - 110	09/07/13 15:06	09/12/13 13:14	1
Phenol-d5	50		31 - 110	09/07/13 15:06	09/12/13 13:14	1
Nitrobenzene-d5	43		25 - 115	09/07/13 15:06	09/12/13 13:14	1
2-Fluorobiphenyl	49		25 - 119	09/07/13 15:06	09/12/13 13:14	1
2,4,6-Tribromophenol	58		35 - 137	09/07/13 15:06	09/12/13 13:14	1
Terphenyl-d14	59		36 - 134	09/07/13 15:06	09/12/13 13:14	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
beta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
delta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
Endosulfan I	<0.0019		0.0019	0.00081	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
Methoxychlor	<0.0092		0.0092	0.00036	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1
Toxaphene	<0.019		0.019	0.0078	mg/Kg	☼	09/12/13 07:33	09/17/13 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		56 - 128	09/12/13 07:33	09/17/13 02:25	1
Tetrachloro-m-xylene	60		45 - 112	09/12/13 07:33	09/17/13 02:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B02-1

Lab Sample ID: 500-62293-10

Date Collected: 09/03/13 10:05

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 88.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	B	11	1.0	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Arsenic	5.9		0.54	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Barium	66		0.54	0.058	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Beryllium	0.72		0.22	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Boron	3.7		2.7	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Cadmium	0.20	B	0.11	0.014	mg/Kg	☼	09/04/13 11:30	09/15/13 15:58	1
Calcium	5100	B	11	3.0	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Chromium	16		0.54	0.063	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Cobalt	6.0		0.27	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Copper	16	B	0.54	0.048	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Iron	18000	B	11	4.5	mg/Kg	☼	09/04/13 11:30	09/15/13 15:58	1
Lead	18	B	0.27	0.081	mg/Kg	☼	09/04/13 11:30	09/15/13 15:58	1
Magnesium	4500	B	5.4	1.1	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Manganese	280	B	0.54	0.030	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Nickel	18		0.54	0.053	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Potassium	1200		27	1.6	mg/Kg	☼	09/04/13 11:30	09/15/13 15:58	1
Selenium	1.1		0.54	0.19	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Sodium	58		54	7.3	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Thallium	0.34	J	0.54	0.23	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Vanadium	22		0.27	0.040	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1
Zinc	49	B	1.1	0.22	mg/Kg	☼	09/04/13 11:30	09/14/13 23:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.25		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 18:42	1
Lead	<0.0075	^	0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 18:42	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57	B	0.50	0.010	mg/L		09/05/13 10:30	09/13/13 23:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/13/13 23:59	1
Boron	0.75		0.10	0.050	mg/L		09/05/13 10:30	09/13/13 23:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/13/13 23:59	1
Chromium	0.020	J	0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:59	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 23:59	1
Iron	18		0.20	0.20	mg/L		09/05/13 10:30	09/13/13 23:59	1
Lead	0.016		0.0075	0.0050	mg/L		09/05/13 10:30	09/13/13 23:59	1
Manganese	0.12		0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:59	1
Nickel	0.015	J	0.025	0.010	mg/L		09/05/13 10:30	09/13/13 23:59	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/13/13 23:59	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/13/13 23:59	1
Zinc	0.39		0.10	0.020	mg/L		09/05/13 10:30	09/13/13 23:59	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 12:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 12:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B02-1

Lab Sample ID: 500-62293-10

Date Collected: 09/03/13 10:05

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 10:05	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0087	mg/Kg	☼	09/04/13 14:30	09/05/13 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.41		0.200	0.200	SU			09/12/13 17:03	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B02-2

Lab Sample ID: 500-62293-11

Date Collected: 09/03/13 10:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 89.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Benzene	<0.0046		0.0046	0.00062	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Bromoform	<0.0046		0.0046	0.0010	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Chloroform	<0.0046		0.0046	0.00052	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Dibromochloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
1,2-Dichloroethane	<0.0046		0.0046	0.00067	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00075	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	09/03/13 10:10	09/05/13 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	09/03/13 10:10	09/05/13 15:04	1
Dibromofluoromethane	104		75 - 120	09/03/13 10:10	09/05/13 15:04	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	09/03/13 10:10	09/05/13 15:04	1
Toluene-d8 (Surr)	99		75 - 122	09/03/13 10:10	09/05/13 15:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B02-2

Lab Sample ID: 500-62293-11

Date Collected: 09/03/13 10:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 89.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Hexachloroethane	<0.18		0.18	0.037	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Naphthalene	0.013	J	0.035	0.0068	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Hexachlorocyclopentadiene	<0.71		0.71	0.16	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
2-Methylnaphthalene	0.048	J	0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
2-Nitroaniline	<0.18		0.18	0.063	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
2,4-Dinitrophenol	<0.71		0.71	0.18	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Acenaphthylene	<0.035		0.035	0.0081	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Fluorene	<0.035		0.035	0.0080	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Hexachlorobenzene	<0.071		0.071	0.0069	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.055	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.085	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Phenanthrene	0.038		0.035	0.015	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Carbazole	<0.18		0.18	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Di-n-butyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Fluoranthene	<0.035		0.035	0.014	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Pyrene	0.014	J	0.035	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B02-2

Lab Sample ID: 500-62293-11

Date Collected: 09/03/13 10:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 89.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.035	0.0079	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Di-n-octyl phthalate	<0.18		0.18	0.071	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Benzo[b]fluoranthene	0.016	J	0.035	0.0068	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Benzo[k]fluoranthene	<0.035		0.035	0.0084	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Benzo[a]pyrene	0.015	J	0.035	0.0064	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Indeno[1,2,3-cd]pyrene	0.023	J	0.035	0.012	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Dibenz[a,h]anthracene	0.021	J	0.035	0.0098	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
Benzo[g,h,i]perylene	0.030	J	0.035	0.012	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	09/07/13 15:06	09/12/13 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		25 - 110	09/07/13 15:06	09/12/13 14:36	1
Phenol-d5	49		31 - 110	09/07/13 15:06	09/12/13 14:36	1
Nitrobenzene-d5	47		25 - 115	09/07/13 15:06	09/12/13 14:36	1
2-Fluorobiphenyl	54		25 - 119	09/07/13 15:06	09/12/13 14:36	1
2,4,6-Tribromophenol	46		35 - 137	09/07/13 15:06	09/12/13 14:36	1
Terphenyl-d14	66		36 - 134	09/07/13 15:06	09/12/13 14:36	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0018		0.0018	0.00075	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
alpha-BHC	<0.0018		0.0018	0.00046	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
alpha-Chlordane	<0.0018		0.0018	0.00091	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
beta-BHC	<0.0018		0.0018	0.00056	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
4,4'-DDD	<0.0018		0.0018	0.00036	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
4,4'-DDE	<0.0018		0.0018	0.00030	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
4,4'-DDT	<0.0018		0.0018	0.00095	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
delta-BHC	<0.0018		0.0018	0.00057	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
Dieldrin	<0.0018		0.0018	0.00025	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
Endosulfan I	<0.0018		0.0018	0.00079	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
Endosulfan II	<0.0018		0.0018	0.00029	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
Endosulfan sulfate	<0.0018		0.0018	0.00033	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
Endrin	<0.0018		0.0018	0.00025	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
Endrin aldehyde	<0.0018		0.0018	0.00030	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
Endrin ketone	<0.0018		0.0018	0.00041	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
gamma-BHC (Lindane)	<0.0018		0.0018	0.00039	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
gamma-Chlordane	<0.0018		0.0018	0.00047	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
Heptachlor	<0.0018		0.0018	0.00076	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
Heptachlor epoxide	<0.0018		0.0018	0.00064	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
Methoxychlor	<0.0090		0.0090	0.00035	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1
Toxaphene	<0.018		0.018	0.0076	mg/Kg	☼	09/12/13 07:33	09/17/13 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	61		56 - 128	09/12/13 07:33	09/17/13 02:44	1
Tetrachloro-m-xylene	50		45 - 112	09/12/13 07:33	09/17/13 02:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B02-2

Lab Sample ID: 500-62293-11

Date Collected: 09/03/13 10:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 89.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6100	B	10	0.96	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Antimony	<1.0		1.0	0.42	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Arsenic	6.3		0.52	0.10	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Barium	22		0.52	0.056	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Beryllium	0.48		0.21	0.018	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Boron	7.9		2.6	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Cadmium	0.23	B	0.10	0.013	mg/Kg	☼	09/04/13 11:30	09/15/13 16:03	1
Calcium	68000		100	28	mg/Kg	☼	09/04/13 11:30	09/15/13 16:08	10
Chromium	11		0.52	0.060	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Cobalt	6.0		0.26	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Copper	21	B	0.52	0.046	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Iron	15000	B	10	4.3	mg/Kg	☼	09/04/13 11:30	09/15/13 16:03	1
Lead	13	B	0.26	0.078	mg/Kg	☼	09/04/13 11:30	09/15/13 16:03	1
Magnesium	26000	B	5.2	1.1	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Manganese	340	B	0.52	0.028	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Nickel	19		0.52	0.051	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Potassium	1300		26	1.6	mg/Kg	☼	09/04/13 11:30	09/15/13 16:03	1
Selenium	0.68		0.52	0.19	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Silver	0.053	J	0.26	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Sodium	130		52	7.0	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Thallium	0.41	J	0.52	0.22	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Vanadium	15		0.26	0.039	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1
Zinc	42	B	1.0	0.21	mg/Kg	☼	09/04/13 11:30	09/14/13 23:10	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58	B	0.50	0.010	mg/L		09/05/13 10:30	09/14/13 00:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 00:06	1
Boron	0.88		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 00:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/14/13 00:06	1
Chromium	<0.025		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:06	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 00:06	1
Iron	1.5		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 00:06	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/05/13 10:30	09/14/13 00:06	1
Manganese	0.023	J	0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:06	1
Nickel	<0.025		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:06	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 00:06	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 00:06	1
Zinc	0.43		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 00:06	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 12:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 12:46	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 10:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B02-2

Lab Sample ID: 500-62293-11

Date Collected: 09/03/13 10:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 89.1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0084	mg/Kg	☼	09/04/13 14:30	09/05/13 10:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU			09/12/13 17:08	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B03-1

Lab Sample ID: 500-62293-12

Date Collected: 09/03/13 10:20

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	09/03/13 10:20	09/05/13 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/03/13 10:20	09/05/13 15:27	1
Dibromofluoromethane	100		75 - 120	09/03/13 10:20	09/05/13 15:27	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/03/13 10:20	09/05/13 15:27	1
Toluene-d8 (Surr)	93		75 - 122	09/03/13 10:20	09/05/13 15:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B03-1

Lab Sample ID: 500-62293-12

Date Collected: 09/03/13 10:20

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B03-1

Lab Sample ID: 500-62293-12

Date Collected: 09/03/13 10:20

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Indeno[1,2,3-cd]pyrene	0.018	J	0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Dibenz(a,h)anthracene	0.016	J	0.037	0.010	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
Benzo[g,h,i]perylene	0.019	J	0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/07/13 15:06	09/12/13 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		25 - 110	09/07/13 15:06	09/12/13 14:52	1
Phenol-d5	50		31 - 110	09/07/13 15:06	09/12/13 14:52	1
Nitrobenzene-d5	49		25 - 115	09/07/13 15:06	09/12/13 14:52	1
2-Fluorobiphenyl	56		25 - 119	09/07/13 15:06	09/12/13 14:52	1
2,4,6-Tribromophenol	43		35 - 137	09/07/13 15:06	09/12/13 14:52	1
Terphenyl-d14	76		36 - 134	09/07/13 15:06	09/12/13 14:52	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00079	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
alpha-BHC	<0.0019		0.0019	0.00049	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
alpha-Chlordane	<0.0019		0.0019	0.00097	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
beta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
4,4'-DDE	<0.0019		0.0019	0.00032	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
Endosulfan I	<0.0019		0.0019	0.00084	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
gamma-Chlordane	<0.0019		0.0019	0.00050	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
Heptachlor	<0.0019		0.0019	0.00080	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
Heptachlor epoxide	<0.0019		0.0019	0.00068	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
Methoxychlor	<0.0095		0.0095	0.00037	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1
Toxaphene	<0.019		0.019	0.0081	mg/Kg	☼	09/12/13 07:33	09/17/13 03:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	60		56 - 128	09/12/13 07:33	09/17/13 03:04	1
Tetrachloro-m-xylene	60		45 - 112	09/12/13 07:33	09/17/13 03:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B03-1

Lab Sample ID: 500-62293-12

Date Collected: 09/03/13 10:20

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9400	B	11	0.98	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Arsenic	9.1		0.53	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Barium	41		0.53	0.057	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Beryllium	0.64		0.21	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Boron	5.3		2.7	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Cadmium	0.15	B	0.11	0.014	mg/Kg	☼	09/04/13 11:30	09/15/13 16:12	1
Calcium	19000	B	11	2.9	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Chromium	15		0.53	0.062	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Cobalt	6.4		0.27	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Copper	20	B	0.53	0.047	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Iron	20000	B	11	4.4	mg/Kg	☼	09/04/13 11:30	09/15/13 16:12	1
Lead	17	B	0.27	0.080	mg/Kg	☼	09/04/13 11:30	09/15/13 16:12	1
Magnesium	13000	B	5.3	1.1	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Manganese	200	B	0.53	0.029	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Nickel	19		0.53	0.052	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Potassium	1300		27	1.6	mg/Kg	☼	09/04/13 11:30	09/15/13 16:12	1
Selenium	0.99		0.53	0.19	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Sodium	110		53	7.2	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Thallium	0.69		0.53	0.23	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Vanadium	18		0.27	0.040	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1
Zinc	50	B	1.1	0.22	mg/Kg	☼	09/04/13 11:30	09/14/13 23:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 18:48	1
Lead	<0.0075	^	0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 18:48	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56	B	0.50	0.010	mg/L		09/05/13 10:30	09/14/13 00:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 00:12	1
Boron	0.76		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 00:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/14/13 00:12	1
Chromium	0.019	J	0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:12	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 00:12	1
Iron	21		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 00:12	1
Lead	0.013		0.0075	0.0050	mg/L		09/05/13 10:30	09/14/13 00:12	1
Manganese	0.076		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:12	1
Nickel	0.051		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:12	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 00:12	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 00:12	1
Zinc	0.55		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 00:12	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 12:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 12:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B03-1

Lab Sample ID: 500-62293-12

Date Collected: 09/03/13 10:20

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 10:13	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0088	mg/Kg	*	09/04/13 14:30	09/05/13 10:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.82		0.200	0.200	SU			09/12/13 17:13	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B03-2

Lab Sample ID: 500-62293-13

Date Collected: 09/03/13 10:25

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	09/03/13 10:25	09/05/13 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/03/13 10:25	09/05/13 15:50	1
Dibromofluoromethane	100		75 - 120	09/03/13 10:25	09/05/13 15:50	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/03/13 10:25	09/05/13 15:50	1
Toluene-d8 (Surr)	97		75 - 122	09/03/13 10:25	09/05/13 15:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B03-2

Lab Sample ID: 500-62293-13

Date Collected: 09/03/13 10:25

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B03-2

Lab Sample ID: 500-62293-13

Date Collected: 09/03/13 10:25

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Dibenz(a,h)anthracene	0.011	J	0.037	0.010	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
Benzo[g,h,i]perylene	0.021	J	0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/07/13 15:06	09/12/13 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		25 - 110	09/07/13 15:06	09/12/13 15:08	1
Phenol-d5	56		31 - 110	09/07/13 15:06	09/12/13 15:08	1
Nitrobenzene-d5	53		25 - 115	09/07/13 15:06	09/12/13 15:08	1
2-Fluorobiphenyl	60		25 - 119	09/07/13 15:06	09/12/13 15:08	1
2,4,6-Tribromophenol	52		35 - 137	09/07/13 15:06	09/12/13 15:08	1
Terphenyl-d14	75		36 - 134	09/07/13 15:06	09/12/13 15:08	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00076	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
alpha-BHC	<0.0019		0.0019	0.00046	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
alpha-Chlordane	<0.0019		0.0019	0.00092	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
beta-BHC	<0.0019		0.0019	0.00056	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
4,4'-DDD	<0.0019		0.0019	0.00036	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
4,4'-DDE	<0.0019		0.0019	0.00030	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
4,4'-DDT	<0.0019		0.0019	0.00096	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
delta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
Endosulfan I	<0.0019		0.0019	0.00080	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
Endosulfan sulfate	<0.0019		0.0019	0.00033	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
Endrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
Endrin ketone	<0.0019		0.0019	0.00041	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00039	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
gamma-Chlordane	<0.0019		0.0019	0.00048	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
Heptachlor	<0.0019		0.0019	0.00076	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
Heptachlor epoxide	<0.0019		0.0019	0.00065	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
Methoxychlor	<0.0090		0.0090	0.00035	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1
Toxaphene	<0.018		0.018	0.0077	mg/Kg	☼	09/12/13 07:33	09/17/13 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		56 - 128	09/12/13 07:33	09/17/13 03:24	1
Tetrachloro-m-xylene	59		45 - 112	09/12/13 07:33	09/17/13 03:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B03-2

Lab Sample ID: 500-62293-13

Date Collected: 09/03/13 10:25

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5000	B	11	1.0	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Arsenic	8.1		0.56	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Barium	21		0.56	0.060	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Beryllium	0.49		0.22	0.020	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Boron	8.2		2.8	0.12	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Cadmium	0.28	B	0.11	0.014	mg/Kg	☼	09/04/13 11:30	09/15/13 16:17	1
Calcium	92000		110	30	mg/Kg	☼	09/04/13 11:30	09/15/13 16:22	10
Chromium	10		0.56	0.065	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Cobalt	7.1		0.28	0.020	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Copper	22	B	0.56	0.049	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Iron	15000	B	11	4.6	mg/Kg	☼	09/04/13 11:30	09/15/13 16:17	1
Lead	13	B	0.28	0.083	mg/Kg	☼	09/04/13 11:30	09/15/13 16:17	1
Magnesium	38000	B	5.6	1.1	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Manganese	440	B	0.56	0.030	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Nickel	19		0.56	0.055	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Potassium	1200		28	1.7	mg/Kg	☼	09/04/13 11:30	09/15/13 16:17	1
Selenium	0.67		0.56	0.20	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Silver	0.060	J	0.28	0.020	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Sodium	170		56	7.5	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Thallium	0.30	J	0.56	0.23	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Vanadium	13		0.28	0.041	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1
Zinc	48	B	1.1	0.22	mg/Kg	☼	09/04/13 11:30	09/14/13 23:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58	B	0.50	0.010	mg/L		09/05/13 10:30	09/14/13 00:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 00:18	1
Boron	0.86		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 00:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/14/13 00:18	1
Chromium	<0.025		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:18	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 00:18	1
Iron	4.0		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 00:18	1
Lead	0.0050	J	0.0075	0.0050	mg/L		09/05/13 10:30	09/14/13 00:18	1
Manganese	0.079		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:18	1
Nickel	<0.025		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:18	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 00:18	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 00:18	1
Zinc	0.53		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 00:18	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 12:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 12:52	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 10:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B03-2

Lab Sample ID: 500-62293-13

Date Collected: 09/03/13 10:25

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.0

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0084	mg/Kg	☼	09/04/13 14:30	09/05/13 10:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.80		0.200	0.200	SU			09/12/13 17:19	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B04-1

Lab Sample ID: 500-62293-14

Date Collected: 09/03/13 10:45

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 92.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Bromodichloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Bromoform	<0.0042		0.0042	0.00097	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Carbon tetrachloride	<0.0042		0.0042	0.00077	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Chloroform	<0.0042		0.0042	0.00049	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Chloromethane	<0.0042		0.0042	0.00089	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00060	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
1,1-Dichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00070	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Tetrachloroethene	<0.0042		0.0042	0.00065	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00076	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00058	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Trichloroethene	<0.0042		0.0042	0.00070	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Vinyl chloride	<0.0042		0.0042	0.00089	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	09/03/13 10:45	09/05/13 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	09/03/13 10:45	09/05/13 16:12	1
Dibromofluoromethane	101		75 - 120	09/03/13 10:45	09/05/13 16:12	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/03/13 10:45	09/05/13 16:12	1
Toluene-d8 (Surr)	95		75 - 122	09/03/13 10:45	09/05/13 16:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B04-1

Lab Sample ID: 500-62293-14

Date Collected: 09/03/13 10:45

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 92.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Hexachlorocyclopentadiene	<0.71		0.71	0.16	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
2,4-Dinitrophenol	<0.71		0.71	0.18	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Acenaphthylene	<0.035		0.035	0.0081	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Fluorene	<0.035		0.035	0.0080	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Hexachlorobenzene	<0.071		0.071	0.0070	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Fluoranthene	<0.035		0.035	0.014	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B04-1

Lab Sample ID: 500-62293-14

Date Collected: 09/03/13 10:45

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 92.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Benzo[b]fluoranthene	<0.035		0.035	0.0069	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Benzo[k]fluoranthene	<0.035		0.035	0.0084	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Benzo[a]pyrene	<0.035		0.035	0.0064	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	09/07/13 15:06	09/12/13 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	44		25 - 110	09/07/13 15:06	09/12/13 15:24	1
Phenol-d5	46		31 - 110	09/07/13 15:06	09/12/13 15:24	1
Nitrobenzene-d5	41		25 - 115	09/07/13 15:06	09/12/13 15:24	1
2-Fluorobiphenyl	45		25 - 119	09/07/13 15:06	09/12/13 15:24	1
2,4,6-Tribromophenol	41		35 - 137	09/07/13 15:06	09/12/13 15:24	1
Terphenyl-d14	62		36 - 134	09/07/13 15:06	09/12/13 15:24	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0018		0.0018	0.00074	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
alpha-BHC	<0.0018		0.0018	0.00045	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
alpha-Chlordane	<0.0018		0.0018	0.00090	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
beta-BHC	<0.0018		0.0018	0.00055	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
4,4'-DDD	<0.0018		0.0018	0.00035	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
4,4'-DDE	<0.0018		0.0018	0.00029	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
4,4'-DDT	<0.0018		0.0018	0.00093	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
delta-BHC	<0.0018		0.0018	0.00056	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
Dieldrin	<0.0018		0.0018	0.00024	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
Endosulfan I	<0.0018		0.0018	0.00078	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
Endosulfan II	<0.0018		0.0018	0.00029	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
Endosulfan sulfate	<0.0018		0.0018	0.00032	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
Endrin	<0.0018		0.0018	0.00025	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
Endrin aldehyde	<0.0018		0.0018	0.00030	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
Endrin ketone	<0.0018		0.0018	0.00040	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
gamma-BHC (Lindane)	<0.0018		0.0018	0.00038	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
gamma-Chlordane	<0.0018		0.0018	0.00047	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
Heptachlor	<0.0018		0.0018	0.00074	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
Heptachlor epoxide	<0.0018		0.0018	0.00063	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
Methoxychlor	<0.0088		0.0088	0.00034	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1
Toxaphene	<0.018		0.018	0.0075	mg/Kg	☼	09/12/13 07:33	09/17/13 03:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		56 - 128	09/12/13 07:33	09/17/13 03:43	1
Tetrachloro-m-xylene	71		45 - 112	09/12/13 07:33	09/17/13 03:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B04-1

Lab Sample ID: 500-62293-14

Date Collected: 09/03/13 10:45

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 92.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6800	B	10	0.94	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Antimony	<1.0		1.0	0.41	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Arsenic	3.4		0.51	0.10	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Barium	52		0.51	0.055	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Beryllium	0.43		0.20	0.018	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Boron	7.1		2.6	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Cadmium	0.20	B	0.10	0.013	mg/Kg	☼	09/04/13 11:30	09/15/13 16:26	1
Calcium	100000		100	28	mg/Kg	☼	09/04/13 11:30	09/15/13 16:31	10
Chromium	12		0.51	0.059	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Cobalt	3.7		0.26	0.018	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Copper	11	B	0.51	0.045	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Iron	10000	B	10	4.2	mg/Kg	☼	09/04/13 11:30	09/15/13 16:26	1
Lead	9.5	B	0.26	0.076	mg/Kg	☼	09/04/13 11:30	09/15/13 16:26	1
Magnesium	18000	B	5.1	1.1	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Manganese	170	B	0.51	0.028	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Nickel	12		0.51	0.050	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Potassium	1200		26	1.5	mg/Kg	☼	09/04/13 11:30	09/15/13 16:26	1
Selenium	0.42	J	0.51	0.18	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Silver	0.043	J	0.26	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Sodium	110		51	6.9	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Thallium	<0.51		0.51	0.22	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Vanadium	12		0.26	0.038	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1
Zinc	31	B	1.0	0.21	mg/Kg	☼	09/04/13 11:30	09/14/13 23:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 18:53	1
Lead	<0.0075	^	0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 18:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56	B	0.50	0.010	mg/L		09/05/13 10:30	09/14/13 00:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 00:24	1
Boron	0.72		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 00:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/14/13 00:24	1
Chromium	0.023	J	0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:24	1
Cobalt	0.0075	J	0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 00:24	1
Iron	26		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 00:24	1
Lead	0.011		0.0075	0.0050	mg/L		09/05/13 10:30	09/14/13 00:24	1
Manganese	0.14		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:24	1
Nickel	0.020	J	0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:24	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 00:24	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 00:24	1
Zinc	0.37		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 00:24	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 12:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 12:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B04-1

Lab Sample ID: 500-62293-14

Date Collected: 09/03/13 10:45

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 10:17	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016		0.016	0.0076	mg/Kg	☼	09/04/13 14:30	09/05/13 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.23		0.200	0.200	SU			09/12/13 17:24	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B04-2

Lab Sample ID: 500-62293-15

Date Collected: 09/03/13 10:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
1,1-Dichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	09/03/13 10:50	09/05/13 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/03/13 10:50	09/05/13 16:35	1
Dibromofluoromethane	99		75 - 120	09/03/13 10:50	09/05/13 16:35	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/03/13 10:50	09/05/13 16:35	1
Toluene-d8 (Surr)	98		75 - 122	09/03/13 10:50	09/05/13 16:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B04-2

Lab Sample ID: 500-62293-15

Date Collected: 09/03/13 10:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B04-2

Lab Sample ID: 500-62293-15

Date Collected: 09/03/13 10:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.036	0.0083	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
Benzo[g,h,i]perylene	0.015	J	0.036	0.012	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	09/07/13 15:06	09/12/13 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		25 - 110	09/07/13 15:06	09/12/13 15:40	1
Phenol-d5	60		31 - 110	09/07/13 15:06	09/12/13 15:40	1
Nitrobenzene-d5	49		25 - 115	09/07/13 15:06	09/12/13 15:40	1
2-Fluorobiphenyl	65		25 - 119	09/07/13 15:06	09/12/13 15:40	1
2,4,6-Tribromophenol	59		35 - 137	09/07/13 15:06	09/12/13 15:40	1
Terphenyl-d14	76		36 - 134	09/07/13 15:06	09/12/13 15:40	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0018		0.0018	0.00074	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
alpha-BHC	<0.0018		0.0018	0.00046	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
alpha-Chlordane	<0.0018		0.0018	0.00091	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
beta-BHC	<0.0018		0.0018	0.00056	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
4,4'-DDD	<0.0018		0.0018	0.00036	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
4,4'-DDE	<0.0018		0.0018	0.00030	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
4,4'-DDT	<0.0018		0.0018	0.00094	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
delta-BHC	<0.0018		0.0018	0.00056	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
Dieldrin	<0.0018		0.0018	0.00025	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
Endosulfan I	<0.0018		0.0018	0.00078	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
Endosulfan II	<0.0018		0.0018	0.00029	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
Endosulfan sulfate	<0.0018		0.0018	0.00033	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
Endrin	<0.0018		0.0018	0.00025	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
Endrin aldehyde	<0.0018		0.0018	0.00030	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
Endrin ketone	<0.0018		0.0018	0.00041	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
gamma-BHC (Lindane)	<0.0018		0.0018	0.00039	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
gamma-Chlordane	<0.0018		0.0018	0.00047	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
Heptachlor	<0.0018		0.0018	0.00075	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
Heptachlor epoxide	<0.0018		0.0018	0.00064	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
Methoxychlor	<0.0089		0.0089	0.00035	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1
Toxaphene	<0.018		0.018	0.0076	mg/Kg	☼	09/12/13 07:33	09/17/13 05:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		56 - 128	09/12/13 07:33	09/17/13 05:21	1
Tetrachloro-m-xylene	63		45 - 112	09/12/13 07:33	09/17/13 05:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B04-2

Lab Sample ID: 500-62293-15

Date Collected: 09/03/13 10:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7200	B	11	1.0	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Arsenic	9.2		0.55	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Barium	49		0.55	0.059	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Beryllium	0.55		0.22	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Boron	9.0		2.7	0.12	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Cadmium	0.25	B	0.11	0.014	mg/Kg	☼	09/04/13 11:30	09/15/13 16:35	1
Calcium	52000	B	11	3.0	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Chromium	13		0.55	0.064	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Cobalt	13		0.27	0.020	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Copper	21	B	0.55	0.049	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Iron	17000	B	11	4.5	mg/Kg	☼	09/04/13 11:30	09/15/13 16:35	1
Lead	14	B	0.27	0.082	mg/Kg	☼	09/04/13 11:30	09/15/13 16:35	1
Magnesium	25000	B	5.5	1.1	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Manganese	630		0.55	0.030	mg/Kg	☼	09/04/13 11:30	09/15/13 16:35	1
Nickel	39		0.55	0.054	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Potassium	1500		27	1.7	mg/Kg	☼	09/04/13 11:30	09/15/13 16:35	1
Selenium	0.86		0.55	0.20	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Silver	0.022	J	0.27	0.020	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Sodium	120		55	7.4	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Thallium	0.76		0.55	0.23	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Vanadium	16		0.27	0.041	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1
Zinc	45	B	1.1	0.22	mg/Kg	☼	09/04/13 11:30	09/14/13 23:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 18:58	1
Lead	<0.0075	^	0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 18:58	1
Manganese	1.2		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 18:58	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.87	B	0.50	0.010	mg/L		09/05/13 10:30	09/14/13 00:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 00:31	1
Boron	1.1		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 00:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/14/13 00:31	1
Chromium	0.045		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:31	1
Cobalt	0.016	J	0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 00:31	1
Iron	48		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 00:31	1
Lead	0.024		0.0075	0.0050	mg/L		09/05/13 10:30	09/14/13 00:31	1
Manganese	0.29		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:31	1
Nickel	0.050		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:31	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 00:31	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 00:31	1
Zinc	0.61		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 00:31	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 12:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 12:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B04-2

Lab Sample ID: 500-62293-15

Date Collected: 09/03/13 10:50

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000054	J	0.00020	0.000020	mg/L	—	09/05/13 15:00	09/06/13 10:18	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.016	0.0077	mg/Kg	☼	09/04/13 14:30	09/05/13 10:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		0.200	0.200	SU	—		09/12/13 17:29	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B05-1

Lab Sample ID: 500-62293-16

Date Collected: 09/03/13 11:05

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
2-Butanone (MEK)	<0.0048		0.0048	0.0018	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Chloroform	<0.0048		0.0048	0.00056	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00069	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00064	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
1,1-Dichloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
1,2-Dichloropropane	<0.0048		0.0048	0.00074	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00064	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Ethylbenzene	<0.0048		0.0048	0.00098	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Styrene	<0.0048		0.0048	0.00064	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Toluene	<0.0048		0.0048	0.00068	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00087	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	09/03/13 11:05	09/05/13 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	09/03/13 11:05	09/05/13 16:58	1
Dibromofluoromethane	99		75 - 120	09/03/13 11:05	09/05/13 16:58	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	09/03/13 11:05	09/05/13 16:58	1
Toluene-d8 (Surr)	94		75 - 122	09/03/13 11:05	09/05/13 16:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B05-1

Lab Sample ID: 500-62293-16

Date Collected: 09/03/13 11:05

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Phenanthrene	0.036	J	0.037	0.016	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B05-1

Lab Sample ID: 500-62293-16

Date Collected: 09/03/13 11:05

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.015	J	0.037	0.0084	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
Benzo[g,h,i]perylene	0.019	J	0.037	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/07/13 15:06	09/12/13 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	09/07/13 15:06	09/12/13 15:56	1
Phenol-d5	55		31 - 110	09/07/13 15:06	09/12/13 15:56	1
Nitrobenzene-d5	46		25 - 115	09/07/13 15:06	09/12/13 15:56	1
2-Fluorobiphenyl	58		25 - 119	09/07/13 15:06	09/12/13 15:56	1
2,4,6-Tribromophenol	59		35 - 137	09/07/13 15:06	09/12/13 15:56	1
Terphenyl-d14	76		36 - 134	09/07/13 15:06	09/12/13 15:56	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
alpha-Chlordane	<0.0019		0.0019	0.00096	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
beta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
4,4'-DDT	<0.0019		0.0019	0.00099	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
Endosulfan I	<0.0019		0.0019	0.00083	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
gamma-Chlordane	<0.0019		0.0019	0.00050	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
Heptachlor	<0.0019		0.0019	0.00079	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
Methoxychlor	<0.0094		0.0094	0.00037	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1
Toxaphene	<0.019		0.019	0.0080	mg/Kg	☼	09/12/13 07:33	09/17/13 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		56 - 128	09/12/13 07:33	09/17/13 05:41	1
Tetrachloro-m-xylene	52		45 - 112	09/12/13 07:33	09/17/13 05:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B05-1

Lab Sample ID: 500-62293-16

Date Collected: 09/03/13 11:05

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 88.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7400	B	11	0.99	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Arsenic	7.2		0.54	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Barium	35		0.54	0.057	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Beryllium	0.56		0.21	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Boron	8.8		2.7	0.11	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Cadmium	0.22	B	0.11	0.014	mg/Kg	☼	09/04/13 11:30	09/15/13 16:48	1
Calcium	63000		110	29	mg/Kg	☼	09/04/13 11:30	09/15/13 16:53	10
Chromium	13		0.54	0.062	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Cobalt	7.4		0.27	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Copper	19	B	0.54	0.048	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Iron	15000	B	11	4.4	mg/Kg	☼	09/04/13 11:30	09/15/13 16:48	1
Lead	13	B	0.27	0.080	mg/Kg	☼	09/04/13 11:30	09/15/13 16:48	1
Magnesium	23000	B	5.4	1.1	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Manganese	290	B	0.54	0.029	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Nickel	19		0.54	0.053	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Potassium	1500		27	1.6	mg/Kg	☼	09/04/13 11:30	09/15/13 16:48	1
Selenium	0.56		0.54	0.19	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Sodium	130		54	7.2	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Thallium	0.54		0.54	0.23	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Vanadium	17		0.27	0.040	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1
Zinc	43	B	1.1	0.22	mg/Kg	☼	09/04/13 11:30	09/14/13 23:56	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.74	B	0.50	0.010	mg/L		09/05/13 10:30	09/14/13 00:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 00:52	1
Boron	1.3		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 00:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/14/13 00:52	1
Chromium	<0.025		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:52	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 00:52	1
Iron	2.2		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 00:52	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/05/13 10:30	09/14/13 00:52	1
Manganese	0.022	J	0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:52	1
Nickel	<0.025		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:52	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 00:52	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 00:52	1
Zinc	0.54		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 00:52	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 12:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 12:59	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 10:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B05-1

Lab Sample ID: 500-62293-16

Date Collected: 09/03/13 11:05

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 88.3

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0086	mg/Kg	☼	09/04/13 14:30	09/05/13 10:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.27		0.200	0.200	SU			09/12/13 10:30	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B05-2

Lab Sample ID: 500-62293-17

Date Collected: 09/03/13 11:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0079		0.0046	0.0020	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	09/03/13 11:10	09/05/13 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	09/03/13 11:10	09/05/13 17:21	1
Dibromofluoromethane	99		75 - 120	09/03/13 11:10	09/05/13 17:21	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	09/03/13 11:10	09/05/13 17:21	1
Toluene-d8 (Surr)	95		75 - 122	09/03/13 11:10	09/05/13 17:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B05-2

Lab Sample ID: 500-62293-17

Date Collected: 09/03/13 11:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Benzo[a]anthracene	<0.036		0.036	0.0075	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B05-2

Lab Sample ID: 500-62293-17

Date Collected: 09/03/13 11:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0081	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	09/07/13 15:06	09/12/13 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		25 - 110	09/07/13 15:06	09/12/13 16:12	1
Phenol-d5	55		31 - 110	09/07/13 15:06	09/12/13 16:12	1
Nitrobenzene-d5	52		25 - 115	09/07/13 15:06	09/12/13 16:12	1
2-Fluorobiphenyl	60		25 - 119	09/07/13 15:06	09/12/13 16:12	1
2,4,6-Tribromophenol	39		35 - 137	09/07/13 15:06	09/12/13 16:12	1
Terphenyl-d14	74		36 - 134	09/07/13 15:06	09/12/13 16:12	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0018		0.0018	0.00075	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
alpha-BHC	<0.0018		0.0018	0.00046	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
alpha-Chlordane	<0.0018		0.0018	0.00092	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
beta-BHC	<0.0018		0.0018	0.00056	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
4,4'-DDD	<0.0018		0.0018	0.00036	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
4,4'-DDE	<0.0018		0.0018	0.00030	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
4,4'-DDT	<0.0018		0.0018	0.00096	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
delta-BHC	<0.0018		0.0018	0.00057	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
Dieldrin	<0.0018		0.0018	0.00025	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
Endosulfan I	<0.0018		0.0018	0.00080	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
Endosulfan II	<0.0018		0.0018	0.00029	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
Endosulfan sulfate	<0.0018		0.0018	0.00033	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
Endrin	<0.0018		0.0018	0.00025	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
Endrin aldehyde	<0.0018		0.0018	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
Endrin ketone	<0.0018		0.0018	0.00041	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
gamma-BHC (Lindane)	<0.0018		0.0018	0.00039	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
gamma-Chlordane	<0.0018		0.0018	0.00048	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
Heptachlor	<0.0018		0.0018	0.00076	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
Heptachlor epoxide	<0.0018		0.0018	0.00065	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
Methoxychlor	<0.0090		0.0090	0.00035	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1
Toxaphene	<0.018		0.018	0.0077	mg/Kg	☼	09/12/13 07:33	09/17/13 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	60		56 - 128	09/12/13 07:33	09/17/13 06:00	1
Tetrachloro-m-xylene	58		45 - 112	09/12/13 07:33	09/17/13 06:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B05-2

Lab Sample ID: 500-62293-17

Date Collected: 09/03/13 11:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4700	B	10	0.96	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Antimony	<1.0		1.0	0.42	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Arsenic	4.9		0.52	0.10	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Barium	21		0.52	0.056	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Beryllium	0.31		0.21	0.018	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Boron	4.1		2.6	0.11	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Cadmium	0.12	B	0.10	0.013	mg/Kg	☼	09/04/13 11:30	09/15/13 16:57	1
Calcium	27000	B	10	2.8	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Chromium	7.3		0.52	0.061	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Cobalt	4.6		0.26	0.019	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Copper	10	B	0.52	0.046	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Iron	13000	B	10	4.3	mg/Kg	☼	09/04/13 11:30	09/15/13 16:57	1
Lead	12	B	0.26	0.078	mg/Kg	☼	09/04/13 11:30	09/15/13 16:57	1
Magnesium	14000	B	5.2	1.1	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Manganese	210	B	0.52	0.028	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Nickel	9.4		0.52	0.051	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Potassium	640		26	1.6	mg/Kg	☼	09/04/13 11:30	09/15/13 16:57	1
Selenium	0.79		0.52	0.19	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Sodium	55		52	7.0	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Thallium	0.28	J	0.52	0.22	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Vanadium	11		0.26	0.039	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1
Zinc	21	B	1.0	0.21	mg/Kg	☼	09/04/13 11:30	09/15/13 00:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 19:03	1
Lead	<0.0075	^	0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 19:03	1
Manganese	0.47		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 19:03	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.74	B	0.50	0.010	mg/L		09/05/13 10:30	09/14/13 00:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 00:58	1
Boron	1.1		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 00:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/14/13 00:58	1
Chromium	0.025		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:58	1
Cobalt	0.0081	J	0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 00:58	1
Iron	27		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 00:58	1
Lead	0.014		0.0075	0.0050	mg/L		09/05/13 10:30	09/14/13 00:58	1
Manganese	0.17		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:58	1
Nickel	0.023	J	0.025	0.010	mg/L		09/05/13 10:30	09/14/13 00:58	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 00:58	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 00:58	1
Zinc	0.52		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 00:58	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 13:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 13:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B05-2

Lab Sample ID: 500-62293-17

Date Collected: 09/03/13 11:10

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 10:22	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.017	0.0082	mg/Kg	☼	09/04/13 14:30	09/05/13 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU			09/12/13 18:37	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B07-1

Lab Sample ID: 500-62293-21

Date Collected: 09/03/13 11:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 89.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0073		0.0073	0.0031	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Benzene	<0.0073		0.0073	0.0010	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Bromodichloromethane	<0.0073		0.0073	0.0013	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Bromoform	<0.0073		0.0073	0.0017	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Bromomethane	<0.0073		0.0073	0.0022	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
2-Butanone (MEK)	<0.0073		0.0073	0.0026	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Carbon disulfide	<0.0073		0.0073	0.0011	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Carbon tetrachloride	<0.0073		0.0073	0.0013	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Chlorobenzene	<0.0073		0.0073	0.00074	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Chloroethane	<0.0073		0.0073	0.0020	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Chloroform	<0.0073		0.0073	0.00084	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Chloromethane	<0.0073		0.0073	0.0015	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
cis-1,2-Dichloroethene	<0.0073		0.0073	0.0010	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
cis-1,3-Dichloropropene	<0.0073		0.0073	0.00095	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Dibromochloromethane	<0.0073		0.0073	0.0013	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
1,1-Dichloroethane	<0.0073		0.0073	0.0011	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
1,2-Dichloroethane	<0.0073		0.0073	0.0011	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
1,1-Dichloroethene	<0.0073		0.0073	0.0012	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
1,2-Dichloropropane	<0.0073		0.0073	0.0011	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
1,3-Dichloropropene, Total	<0.0073		0.0073	0.00095	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Ethylbenzene	<0.0073		0.0073	0.0015	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
2-Hexanone	<0.0073		0.0073	0.0021	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Methylene Chloride	<0.0073		0.0073	0.0020	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
4-Methyl-2-pentanone (MIBK)	<0.0073		0.0073	0.0019	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Methyl tert-butyl ether	<0.0073		0.0073	0.0012	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Styrene	<0.0073		0.0073	0.00095	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
1,1,1,2-Tetrachloroethane	<0.0073		0.0073	0.0015	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Tetrachloroethene	<0.0073		0.0073	0.0011	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Toluene	<0.0073		0.0073	0.0010	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
trans-1,2-Dichloroethene	<0.0073		0.0073	0.0010	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
trans-1,3-Dichloropropene	<0.0073		0.0073	0.0013	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
1,1,1-Trichloroethane	<0.0073		0.0073	0.0011	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
1,1,2-Trichloroethane	<0.0073		0.0073	0.00099	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Trichloroethene	<0.0073		0.0073	0.0012	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Vinyl acetate	<0.0073		0.0073	0.0011	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Vinyl chloride	<0.0073		0.0073	0.0015	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1
Xylenes, Total	<0.015		0.015	0.00066	mg/Kg	☼	09/03/13 11:50	09/05/13 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/03/13 11:50	09/05/13 18:51	1
Dibromofluoromethane	104		75 - 120	09/03/13 11:50	09/05/13 18:51	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	09/03/13 11:50	09/05/13 18:51	1
Toluene-d8 (Surr)	92		75 - 122	09/03/13 11:50	09/05/13 18:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	09/07/13 15:27	09/10/13 19:11	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	09/07/13 15:27	09/10/13 19:11	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	09/07/13 15:27	09/10/13 19:11	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	09/07/13 15:27	09/10/13 19:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B07-1

Lab Sample ID: 500-62293-21

Date Collected: 09/03/13 11:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 89.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Isophorone	<0.18		0.18	0.039	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Hexachlorocyclopentadiene	<0.71		0.71	0.16	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
2,4-Dinitrophenol	<0.71		0.71	0.18	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Acenaphthylene	<0.035		0.035	0.0081	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Fluorene	<0.035		0.035	0.0080	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Hexachlorobenzene	<0.071		0.071	0.0070	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Carbazole	<0.18		0.18	0.050	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Fluoranthene	<0.035		0.035	0.014	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Pyrene	<0.035		0.035	0.013	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	*	09/07/13 15:27	09/10/13 19:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B07-1

Lab Sample ID: 500-62293-21

Date Collected: 09/03/13 11:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 89.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	09/07/13 15:27	09/10/13 19:11	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	09/07/13 15:27	09/10/13 19:11	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/07/13 15:27	09/10/13 19:11	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	09/07/13 15:27	09/10/13 19:11	1
Benzo[b]fluoranthene	<0.035		0.035	0.0069	mg/Kg	☼	09/07/13 15:27	09/10/13 19:11	1
Benzo[k]fluoranthene	<0.035		0.035	0.0084	mg/Kg	☼	09/07/13 15:27	09/10/13 19:11	1
Benzo[a]pyrene	<0.035		0.035	0.0064	mg/Kg	☼	09/07/13 15:27	09/10/13 19:11	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 19:11	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	09/07/13 15:27	09/10/13 19:11	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 19:11	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	09/07/13 15:27	09/10/13 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	39		25 - 110	09/07/13 15:27	09/10/13 19:11	1
Phenol-d5	38		31 - 110	09/07/13 15:27	09/10/13 19:11	1
Nitrobenzene-d5	37		25 - 115	09/07/13 15:27	09/10/13 19:11	1
2-Fluorobiphenyl	41		25 - 119	09/07/13 15:27	09/10/13 19:11	1
2,4,6-Tribromophenol	36		35 - 137	09/07/13 15:27	09/10/13 19:11	1
Terphenyl-d14	46		36 - 134	09/07/13 15:27	09/10/13 19:11	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00076	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
alpha-Chlordane	<0.0019		0.0019	0.00093	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
beta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
4,4'-DDT	<0.0019		0.0019	0.00097	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
delta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
Endosulfan I	<0.0019		0.0019	0.00081	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
Endrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
gamma-Chlordane	<0.0019		0.0019	0.00048	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
Heptachlor	<0.0019		0.0019	0.00077	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
Methoxychlor	<0.0092		0.0092	0.00036	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1
Toxaphene	<0.018		0.018	0.0078	mg/Kg	☼	09/12/13 07:33	09/17/13 07:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		56 - 128	09/12/13 07:33	09/17/13 07:38	1
Tetrachloro-m-xylene	53		45 - 112	09/12/13 07:33	09/17/13 07:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B07-1

Lab Sample ID: 500-62293-21

Date Collected: 09/03/13 11:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 89.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	B	11	0.98	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Arsenic	8.7		0.53	0.11	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Barium	59	B	0.53	0.057	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Beryllium	0.73		0.21	0.019	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Boron	7.3		2.7	0.11	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Cadmium	0.19	B	0.11	0.014	mg/Kg	☼	09/04/13 12:00	09/15/13 17:26	1
Calcium	19000	B	11	2.9	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Chromium	16		0.53	0.062	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Cobalt	10	B	0.27	0.019	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Copper	22		0.53	0.047	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Iron	20000	B	11	4.4	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Lead	20		0.27	0.079	mg/Kg	☼	09/04/13 12:00	09/15/13 17:26	1
Magnesium	13000	B	5.3	1.1	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Manganese	490	B	0.53	0.029	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Nickel	27	B	0.53	0.052	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Potassium	1500	B	27	1.6	mg/Kg	☼	09/04/13 12:00	09/15/13 17:26	1
Selenium	0.84		0.53	0.19	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Sodium	75	B	53	7.1	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Thallium	0.61		0.53	0.22	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Vanadium	22	B	0.27	0.039	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1
Zinc	48	B	1.1	0.22	mg/Kg	☼	09/04/13 12:00	09/15/13 00:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 19:19	1
Lead	<0.0075	^	0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 19:19	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.92		0.50	0.010	mg/L		09/05/13 10:30	09/14/13 13:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 13:56	1
Boron	1.7		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 13:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/15/13 20:59	1
Chromium	0.021	J	0.025	0.010	mg/L		09/05/13 10:30	09/14/13 13:56	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 13:56	1
Iron	18		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 13:56	1
Lead	0.0098		0.0075	0.0050	mg/L		09/05/13 10:30	09/15/13 20:59	1
Manganese	0.096		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 13:56	1
Nickel	0.019	J	0.025	0.010	mg/L		09/05/13 10:30	09/14/13 13:56	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 13:56	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 13:56	1
Zinc	0.80		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 13:56	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 13:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 13:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B07-1

Lab Sample ID: 500-62293-21

Date Collected: 09/03/13 11:50

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 11:30	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.017	0.0078	mg/Kg	☼	09/04/13 14:30	09/05/13 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.10		0.200	0.200	SU			09/12/13 21:22	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B07-2

Lab Sample ID: 500-62293-22

Date Collected: 09/03/13 11:55

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0040		0.0040	0.0017	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Benzene	<0.0040		0.0040	0.00054	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Bromoform	<0.0040		0.0040	0.00091	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Carbon disulfide	<0.0040		0.0040	0.00059	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Carbon tetrachloride	<0.0040		0.0040	0.00072	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Chlorobenzene	<0.0040		0.0040	0.00040	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Chloromethane	<0.0040		0.0040	0.00083	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00052	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Dibromochloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
1,1-Dichloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
1,1,1-Dichloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
1,2-Dichloropropane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00052	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Ethylbenzene	<0.0040		0.0040	0.00080	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
2-Hexanone	<0.0040		0.0040	0.0011	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0010	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00065	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Styrene	<0.0040		0.0040	0.00052	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00080	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Tetrachloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Toluene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00054	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00071	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00054	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Trichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Vinyl acetate	<0.0040		0.0040	0.00062	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Vinyl chloride	<0.0040		0.0040	0.00083	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1
Xylenes, Total	<0.0079		0.0079	0.00036	mg/Kg	☼	09/03/13 11:55	09/05/13 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/03/13 11:55	09/05/13 19:14	1
Dibromofluoromethane	96		75 - 120	09/03/13 11:55	09/05/13 19:14	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/03/13 11:55	09/05/13 19:14	1
Toluene-d8 (Surr)	94		75 - 122	09/03/13 11:55	09/05/13 19:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B07-2

Lab Sample ID: 500-62293-22

Date Collected: 09/03/13 11:55

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Hexachlorobenzene	<0.073		0.073	0.0072	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B07-2

Lab Sample ID: 500-62293-22

Date Collected: 09/03/13 11:55

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	09/07/13 15:27	09/10/13 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	45		25 - 110	09/07/13 15:27	09/10/13 19:29	1
Phenol-d5	42		31 - 110	09/07/13 15:27	09/10/13 19:29	1
Nitrobenzene-d5	44		25 - 115	09/07/13 15:27	09/10/13 19:29	1
2-Fluorobiphenyl	47		25 - 119	09/07/13 15:27	09/10/13 19:29	1
2,4,6-Tribromophenol	38		35 - 137	09/07/13 15:27	09/10/13 19:29	1
Terphenyl-d14	53		36 - 134	09/07/13 15:27	09/10/13 19:29	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
Endosulfan I	<0.0019		0.0019	0.00082	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	09/12/13 07:33	09/17/13 07:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		56 - 128	09/12/13 07:33	09/17/13 07:58	1
Tetrachloro-m-xylene	57		45 - 112	09/12/13 07:33	09/17/13 07:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B07-2

Lab Sample ID: 500-62293-22

Date Collected: 09/03/13 11:55

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 88.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8300	B	11	0.97	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Arsenic	6.4		0.53	0.11	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Barium	31	B	0.53	0.057	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Beryllium	0.60		0.21	0.019	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Boron	9.9		2.6	0.11	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Cadmium	0.18	B	0.11	0.013	mg/Kg	☼	09/04/13 12:00	09/15/13 17:58	1
Calcium	50000	B	11	2.9	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Chromium	14		0.53	0.061	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Cobalt	5.4	B	0.26	0.019	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Copper	20		0.53	0.047	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Iron	16000	B	11	4.4	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Lead	13		0.26	0.079	mg/Kg	☼	09/04/13 12:00	09/15/13 17:58	1
Magnesium	23000	B	5.3	1.1	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Manganese	270	B	0.53	0.029	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Nickel	18	B	0.53	0.052	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Potassium	1700	B	26	1.6	mg/Kg	☼	09/04/13 12:00	09/15/13 17:58	1
Selenium	0.49	J	0.53	0.19	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Sodium	110	B	53	7.1	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Thallium	0.29	J	0.53	0.22	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Vanadium	18	B	0.26	0.039	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1
Zinc	41	B	1.1	0.21	mg/Kg	☼	09/04/13 12:00	09/15/13 01:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.2	B	0.10	0.050	mg/L		09/18/13 08:30	09/18/13 19:24	1
Iron	0.30		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 19:24	1
Lead	<0.0075	^	0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 19:24	1
Manganese	0.68		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 19:24	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.010	mg/L		09/05/13 10:30	09/14/13 14:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 14:02	1
Boron	2.0		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 14:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/15/13 21:03	1
Chromium	0.019	J	0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:02	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 14:02	1
Iron	15		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 14:02	1
Lead	0.0088		0.0075	0.0050	mg/L		09/05/13 10:30	09/15/13 21:03	1
Manganese	0.16		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:02	1
Nickel	0.015	J	0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:02	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 14:02	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 14:02	1
Zinc	0.91		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 14:02	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 13:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Client Sample ID: 846D-65-B07-2

Lab Sample ID: 500-62293-22

Date Collected: 09/03/13 11:55

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	09/05/13 10:30	09/06/13 13:36	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L	-	09/05/13 15:00	09/06/13 11:32	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0082	mg/Kg	☆	09/04/13 14:30	09/05/13 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.14		0.200	0.200	SU	-		09/12/13 21:22	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	MS/MSD Recovery and/or RPD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US6/IL7 Willy & Cook Co. Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: _____ of _____ Lab Job No.: 500-62293 Sample Temp.: 34.3/13.8/3.5 Matrix Key:														
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other															
ANALYSES																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	
7	846D-65-B01-1	9/13/13	0945	S	X				X		X	X	X	X			
8	846D-65-B01-2	9/13/13	0950														
9	846D-65-B01-2 DUA	9/13/13	0955														
10	846D-65-B02-1	9/13/13	1005														
11	846D-65-B02-2	9/13/13	1010														
12	846D-65-B03-1	9/13/13	1020														
13	846D-65-B03-2	9/13/13	1025														
14	846D-65-B04-1	9/13/13	1045														
15	846D-65-B04-2	9/13/13	1050														
16	846D-65-B05-1	9/13/13	1105														
17	846D-65-B05-2	9/13/13	1110														
18	846D-65-B06-1	9/13/13	1140	S	X	X			X		X	X	X	X			
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>											
					9/13/13 @ 1620	Date/Time											
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>											
					9/13/13 1700	Date/Time											
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>											
					9/13/13 0630	Date/Time											



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com	Project Name: <u>US6/IL7 Willx-Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: _____ of _____ Lab Job No.: <u>500-62293</u> Sample Temp: <u>3, 4, 3, 7, 3, 8, 3, 5</u> Matrix Key: _____																																																																																	
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES																																																																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> </tr> </thead> <tbody> <tr> <td>19</td> <td>846D-65-B06-2</td> <td>9/3/13</td> <td>1145</td> <td>S</td> </tr> <tr> <td>20</td> <td>846D-65-B06-2 DUP</td> <td>9/3/13</td> <td>1150</td> <td>S</td> </tr> <tr> <td>21</td> <td>846D-65-B07-1</td> <td>9/3/13</td> <td>1150</td> <td>S</td> </tr> <tr> <td>22</td> <td>846D-65-B07-2</td> <td>9/3/13</td> <td>1155</td> <td>S</td> </tr> </tbody> </table>	Lab ID	Sample ID	Sample Date	Sample Time	Matrix	19	846D-65-B06-2	9/3/13	1145	S	20	846D-65-B06-2 DUP	9/3/13	1150	S	21	846D-65-B07-1	9/3/13	1150	S	22	846D-65-B07-2	9/3/13	1155	S	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>VOCS</th> <th>SVOCs</th> <th>BTEX & MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> </tbody> </table>			VOCS	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	X	X			X		X	X	X	X		X	X			X		X	X	X	X		X	X			X		X	X	X	X		X	X			X		X	X	X	X		Comments
Lab ID	Sample ID	Sample Date	Sample Time	Matrix																																																																																
19	846D-65-B06-2	9/3/13	1145	S																																																																																
20	846D-65-B06-2 DUP	9/3/13	1150	S																																																																																
21	846D-65-B07-1	9/3/13	1150	S																																																																																
22	846D-65-B07-2	9/3/13	1155	S																																																																																
VOCS	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization																																																																										
X	X			X		X	X	X	X																																																																											
X	X			X		X	X	X	X																																																																											
X	X			X		X	X	X	X																																																																											
X	X			X		X	X	X	X																																																																											
Relinquished by: <u>Michael S. Ward</u> Relinquished by: <u>Kyle B.</u> Relinquished by: _____		Received by: <u>[Signature]</u> Received by: <u>[Signature]</u> Received by: _____																																																																																		
Date/Time: <u>9/13/13 @ 1620</u> Date/Time: <u>9/13/13 1740</u> Date/Time: _____		Date/Time: <u>9-3-13/1620</u> Date/Time: <u>9/13/13 0630</u> Date/Time: _____																																																																																		



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Approximately 13601 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59932 Longitude: -87.94962
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 1978070001 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)Latitude: 41.59932 Longitude: -87.94962Uncontaminated Site Certification**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-66-B01 AND -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-66. SEE FIGURE 13 AND TABLE 3bd OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-62388-7

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246

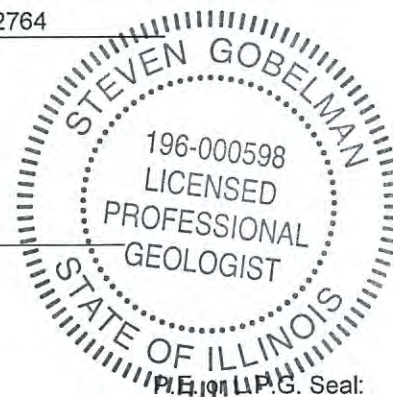
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62388-7
Client Project/Site: IDOT - Gougar Road - WO 023
Revision: 1

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/23/2013 4:26:06 PM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-7

Client Sample ID: 846D-66-B01

Lab Sample ID: 500-62388-17

Date Collected: 09/04/13 10:55

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 88.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	09/04/13 10:55	09/06/13 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/04/13 10:55	09/06/13 18:32	1
Dibromofluoromethane	105		75 - 120	09/04/13 10:55	09/06/13 18:32	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	09/04/13 10:55	09/06/13 18:32	1
Toluene-d8 (Surr)	96		75 - 122	09/04/13 10:55	09/06/13 18:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-7

Client Sample ID: 846D-66-B01

Lab Sample ID: 500-62388-17

Date Collected: 09/04/13 10:55

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Pentachlorophenol	<0.73	*	0.73	0.18	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-7

Client Sample ID: 846D-66-B01

Lab Sample ID: 500-62388-17

Date Collected: 09/04/13 10:55

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.0099	J	0.036	0.0082	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	09/11/13 07:42	09/13/13 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	09/11/13 07:42	09/13/13 03:27	1
Phenol-d5	54		31 - 110	09/11/13 07:42	09/13/13 03:27	1
Nitrobenzene-d5	56		25 - 115	09/11/13 07:42	09/13/13 03:27	1
2-Fluorobiphenyl	57		25 - 119	09/11/13 07:42	09/13/13 03:27	1
2,4,6-Tribromophenol	71		35 - 137	09/11/13 07:42	09/13/13 03:27	1
Terphenyl-d14	104		36 - 134	09/11/13 07:42	09/13/13 03:27	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00075	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
alpha-BHC	<0.0019		0.0019	0.00046	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
alpha-Chlordane	<0.0019		0.0019	0.00092	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
beta-BHC	<0.0019		0.0019	0.00056	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
4,4'-DDD	<0.0019		0.0019	0.00036	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
4,4'-DDE	<0.0019		0.0019	0.00030	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
4,4'-DDT	<0.0019		0.0019	0.00096	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
delta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
Endosulfan I	<0.0019		0.0019	0.00080	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
Endosulfan sulfate	<0.0019		0.0019	0.00033	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
Endrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
Endrin ketone	<0.0019		0.0019	0.00041	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00039	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
gamma-Chlordane	<0.0019		0.0019	0.00048	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
Heptachlor	<0.0019		0.0019	0.00076	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
Heptachlor epoxide	<0.0019		0.0019	0.00065	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
Methoxychlor	<0.0090		0.0090	0.00035	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1
Toxaphene	<0.018		0.018	0.0077	mg/Kg	☼	09/13/13 07:31	09/17/13 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	58		56 - 128	09/13/13 07:31	09/17/13 19:43	1
Tetrachloro-m-xylene	41	X	45 - 112	09/13/13 07:31	09/17/13 19:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-7

Client Sample ID: 846D-66-B01

Lab Sample ID: 500-62388-17

Date Collected: 09/04/13 10:55

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 88.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7600		10	0.95	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Antimony	<1.0		1.0	0.41	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Arsenic	5.5		0.52	0.10	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Barium	32		0.52	0.055	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Beryllium	0.56		0.21	0.018	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Boron	9.1		2.6	0.11	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Cadmium	0.39		0.10	0.013	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Calcium	65000	B	100	28	mg/Kg	☼	09/05/13 11:30	09/19/13 00:05	10
Chromium	14	B	0.52	0.060	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Cobalt	4.8	B	0.26	0.018	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Copper	18		0.52	0.046	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Iron	15000		10	4.2	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Lead	9.4		0.26	0.077	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Magnesium	23000	B	5.2	1.1	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Manganese	260	B	0.52	0.028	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Nickel	16	B	0.52	0.051	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Potassium	2000	B	26	1.6	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Selenium	0.37	J	0.52	0.18	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Sodium	210		52	6.9	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Thallium	0.50	J	0.52	0.22	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Vanadium	16	B	0.26	0.038	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1
Zinc	38	B	1.0	0.21	mg/Kg	☼	09/05/13 11:30	09/18/13 01:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/13 08:30	09/19/13 23:57	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/13 08:30	09/19/13 23:57	1
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/19/13 23:57	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/18/13 08:30	09/19/13 23:57	1
Manganese	0.64		0.025	0.010	mg/L		09/18/13 08:30	09/19/13 23:57	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/13 08:30	09/19/13 23:57	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.90		0.50	0.010	mg/L		09/06/13 10:30	09/14/13 18:41	1
Beryllium	0.0052		0.0040	0.0040	mg/L		09/06/13 10:30	09/14/13 18:41	1
Boron	1.1		0.10	0.050	mg/L		09/06/13 10:30	09/14/13 18:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/06/13 10:30	09/16/13 00:01	1
Chromium	0.10		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 18:41	1
Cobalt	0.025		0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 18:41	1
Iron	110		0.20	0.20	mg/L		09/06/13 10:30	09/14/13 18:41	1
Lead	0.055		0.0075	0.0050	mg/L		09/06/13 10:30	09/16/13 00:01	1
Manganese	0.49		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 18:41	1
Nickel	0.10		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 18:41	1
Selenium	<0.050		0.050	0.010	mg/L		09/06/13 10:30	09/14/13 18:41	1
Silver	<0.025		0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 18:41	1
Zinc	0.84	B	0.10	0.020	mg/L		09/06/13 10:30	09/14/13 18:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-7

Client Sample ID: 846D-66-B01

Lab Sample ID: 500-62388-17

Date Collected: 09/04/13 10:55

Matrix: Solid

Date Received: 09/05/13 06:30

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/06/13 10:30	09/10/13 16:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/06/13 10:30	09/11/13 17:23	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J	0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 11:51	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0078	mg/Kg	☼	09/05/13 14:30	09/06/13 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.63		0.200	0.200	SU			09/13/13 15:57	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-7

Client Sample ID: 846D-66-B03

Lab Sample ID: 500-62388-19

Date Collected: 09/04/13 10:25

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 86.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.022		0.0040	0.0017	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Bromodichloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Bromoform	<0.0040		0.0040	0.00093	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Carbon tetrachloride	<0.0040		0.0040	0.00074	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Chloromethane	<0.0040		0.0040	0.00085	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
1,1-Dichloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
1,1,1-Dichloroethane	<0.0040		0.0040	0.00065	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Ethylbenzene	<0.0040		0.0040	0.00082	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0011	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00067	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Tetrachloroethene	<0.0040		0.0040	0.00062	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Toluene	<0.0040		0.0040	0.00057	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00056	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Trichloroethene	<0.0040		0.0040	0.00067	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Vinyl acetate	<0.0040		0.0040	0.00064	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Vinyl chloride	<0.0040		0.0040	0.00085	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	09/04/13 10:25	09/06/13 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/04/13 10:25	09/06/13 19:17	1
Dibromofluoromethane	104		75 - 120	09/04/13 10:25	09/06/13 19:17	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/04/13 10:25	09/06/13 19:17	1
Toluene-d8 (Surr)	98		75 - 122	09/04/13 10:25	09/06/13 19:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-7

Client Sample ID: 846D-66-B03

Lab Sample ID: 500-62388-19

Date Collected: 09/04/13 10:25

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Hexachlorobenzene	<0.073		0.073	0.0072	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Pentachlorophenol	<0.73	*	0.73	0.19	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-7

Client Sample ID: 846D-66-B03

Lab Sample ID: 500-62388-19

Date Collected: 09/04/13 10:25

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.0095	J	0.036	0.0082	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	09/11/13 07:42	09/13/13 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110	09/11/13 07:42	09/13/13 04:08	1
Phenol-d5	62		31 - 110	09/11/13 07:42	09/13/13 04:08	1
Nitrobenzene-d5	61		25 - 115	09/11/13 07:42	09/13/13 04:08	1
2-Fluorobiphenyl	68		25 - 119	09/11/13 07:42	09/13/13 04:08	1
2,4,6-Tribromophenol	62		35 - 137	09/11/13 07:42	09/13/13 04:08	1
Terphenyl-d14	96		36 - 134	09/11/13 07:42	09/13/13 04:08	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00079	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
alpha-Chlordane	<0.0019		0.0019	0.00096	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
beta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
4,4'-DDE	<0.0019		0.0019	0.00032	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
Endosulfan I	<0.0019		0.0019	0.00083	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
gamma-Chlordane	<0.0019		0.0019	0.00050	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
Heptachlor	<0.0019		0.0019	0.00080	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
Heptachlor epoxide	<0.0019		0.0019	0.00068	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
Methoxychlor	<0.0095		0.0095	0.00037	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1
Toxaphene	<0.019		0.019	0.0080	mg/Kg	☼	09/13/13 07:31	09/17/13 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	61		56 - 128	09/13/13 07:31	09/17/13 20:22	1
Tetrachloro-m-xylene	48		45 - 112	09/13/13 07:31	09/17/13 20:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-7

Client Sample ID: 846D-66-B03

Lab Sample ID: 500-62388-19

Date Collected: 09/04/13 10:25

Matrix: Solid

Date Received: 09/05/13 06:30

Percent Solids: 86.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7100		11	0.97	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Arsenic	8.2		0.53	0.11	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Barium	35		0.53	0.057	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Beryllium	0.55		0.21	0.019	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Boron	8.7		2.6	0.11	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Cadmium	0.42		0.11	0.013	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Calcium	66000	B	110	29	mg/Kg	☼	09/05/13 11:30	09/19/13 00:18	10
Chromium	13	B	0.53	0.061	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Cobalt	9.2	B	0.26	0.019	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Copper	20		0.53	0.047	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Iron	17000		11	4.4	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Lead	11		0.26	0.079	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Magnesium	24000	B	5.3	1.1	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Manganese	360	B	0.53	0.029	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Nickel	21	B	0.53	0.052	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Potassium	1800	B	26	1.6	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Selenium	0.55		0.53	0.19	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Silver	0.030	J B	0.26	0.019	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Sodium	120		53	7.1	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Thallium	0.53		0.53	0.22	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Vanadium	17	B	0.26	0.039	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1
Zinc	43	B	1.1	0.21	mg/Kg	☼	09/05/13 11:30	09/18/13 01:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/20/13 00:08	1
Lead	0.0052	J	0.0075	0.0050	mg/L		09/18/13 08:30	09/20/13 00:08	1
Manganese	0.49		0.025	0.010	mg/L		09/18/13 08:30	09/20/13 00:08	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		09/06/13 10:30	09/14/13 18:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/06/13 10:30	09/14/13 18:53	1
Boron	1.6		0.10	0.050	mg/L		09/06/13 10:30	09/14/13 18:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/06/13 10:30	09/16/13 00:09	1
Chromium	0.079		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 18:53	1
Cobalt	0.019	J	0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 18:53	1
Iron	88		0.20	0.20	mg/L		09/06/13 10:30	09/14/13 18:53	1
Lead	0.048		0.0075	0.0050	mg/L		09/06/13 10:30	09/16/13 00:09	1
Manganese	0.31		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 18:53	1
Nickel	0.067		0.025	0.010	mg/L		09/06/13 10:30	09/14/13 18:53	1
Selenium	<0.050		0.050	0.010	mg/L		09/06/13 10:30	09/14/13 18:53	1
Silver	<0.025		0.025	0.0050	mg/L		09/06/13 10:30	09/14/13 18:53	1
Zinc	1.0	B	0.10	0.020	mg/L		09/06/13 10:30	09/14/13 18:53	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/06/13 10:30	09/10/13 16:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/06/13 10:30	09/11/13 17:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-7

Client Sample ID: 846D-66-B03

Lab Sample ID: 500-62388-19

Date Collected: 09/04/13 10:25

Matrix: Solid

Date Received: 09/05/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000099	J	0.00020	0.000020	mg/L	—	09/09/13 14:45	09/10/13 11:55	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0081	mg/Kg	☼	09/05/13 14:30	09/06/13 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.15		0.200	0.200	SU	—		09/13/13 16:09	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62388-7

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13414 to 13526 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59978 Longitude: -87.94900
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 1978070001 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59978 Longitude: -87.94900

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)];

LOCATIONS 846D-70-B01 THROUGH -B09 WERE SAMPLED ADJACENT TO SITE NO. 846D-70. SEE FIGURES 13, 14, & 24, AND TABLE 3be OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610];

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-61605-1 AND 500-62293-3

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

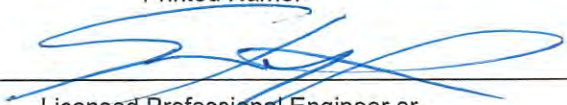
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62293-3
Client Project/Site: IDOT - Gougar Road - WO 023
Revision: 1

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/24/2013 9:22:51 AM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B01

Lab Sample ID: 500-62293-23

Date Collected: 09/03/13 13:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1
Xylenes, Total	<0.0096		0.0096	0.00044	mg/Kg	☼	09/03/13 13:50	09/05/13 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/03/13 13:50	09/05/13 19:37	1
Dibromofluoromethane	98		75 - 120	09/03/13 13:50	09/05/13 19:37	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	09/03/13 13:50	09/05/13 19:37	1
Toluene-d8 (Surr)	97		75 - 122	09/03/13 13:50	09/05/13 19:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B01

Lab Sample ID: 500-62293-23

Date Collected: 09/03/13 13:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B01

Lab Sample ID: 500-62293-23

Date Collected: 09/03/13 13:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.0099	J	0.039	0.0088	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	09/07/13 15:27	09/10/13 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	37		25 - 110	09/07/13 15:27	09/10/13 19:47	1
Phenol-d5	37		31 - 110	09/07/13 15:27	09/10/13 19:47	1
Nitrobenzene-d5	38		25 - 115	09/07/13 15:27	09/10/13 19:47	1
2-Fluorobiphenyl	43		25 - 119	09/07/13 15:27	09/10/13 19:47	1
2,4,6-Tribromophenol	37		35 - 137	09/07/13 15:27	09/10/13 19:47	1
Terphenyl-d14	47		36 - 134	09/07/13 15:27	09/10/13 19:47	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00079	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
alpha-BHC	<0.0019		0.0019	0.00049	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
alpha-Chlordane	<0.0019		0.0019	0.00097	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
beta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
4,4'-DDE	<0.0019		0.0019	0.00032	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
Endosulfan I	<0.0019		0.0019	0.00084	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
gamma-Chlordane	<0.0019		0.0019	0.00050	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
Heptachlor	<0.0019		0.0019	0.00080	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
Heptachlor epoxide	<0.0019		0.0019	0.00068	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
Methoxychlor	<0.0095		0.0095	0.00037	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1
Toxaphene	<0.019		0.019	0.0081	mg/Kg	☼	09/12/13 07:33	09/17/13 08:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		56 - 128	09/12/13 07:33	09/17/13 08:17	1
Tetrachloro-m-xylene	63		45 - 112	09/12/13 07:33	09/17/13 08:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B01

Lab Sample ID: 500-62293-23

Date Collected: 09/03/13 13:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300	B	11	1.0	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Arsenic	6.2		0.56	0.11	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Barium	45	B	0.56	0.060	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Beryllium	0.66		0.22	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Boron	11		2.8	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Cadmium	0.24	B	0.11	0.014	mg/Kg	☼	09/04/13 12:00	09/15/13 18:03	1
Calcium	42000	B	11	3.0	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Chromium	15		0.56	0.065	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Cobalt	8.6	B	0.28	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Copper	20		0.56	0.049	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Iron	17000	B	11	4.6	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Lead	18		0.28	0.083	mg/Kg	☼	09/04/13 12:00	09/15/13 18:03	1
Magnesium	21000	B	5.6	1.1	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Manganese	400	B	0.56	0.030	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Nickel	22	B	0.56	0.055	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Potassium	1900	B	28	1.7	mg/Kg	☼	09/04/13 12:00	09/15/13 18:03	1
Selenium	0.63		0.56	0.20	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Sodium	200	B	56	7.5	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Thallium	0.56		0.56	0.24	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Vanadium	20	B	0.28	0.041	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1
Zinc	44	B	1.1	0.23	mg/Kg	☼	09/04/13 12:00	09/15/13 01:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 19:49	1
Lead	<0.0075	^	0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 19:49	1
Manganese	0.050		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 19:49	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.76		0.50	0.010	mg/L		09/05/13 10:30	09/14/13 14:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 14:08	1
Boron	1.2		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 14:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/15/13 21:15	1
Chromium	0.028		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:08	1
Cobalt	0.0085	J	0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 14:08	1
Iron	20		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 14:08	1
Lead	0.013		0.0075	0.0050	mg/L		09/05/13 10:30	09/15/13 21:15	1
Manganese	0.18		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:08	1
Nickel	0.022	J	0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:08	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 14:08	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 14:08	1
Zinc	0.57		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 14:08	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 13:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 13:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B01

Lab Sample ID: 500-62293-23

Date Collected: 09/03/13 13:50

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 11:34	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.018	0.0084	mg/Kg	☼	09/04/13 14:30	09/05/13 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12		0.200	0.200	SU			09/12/13 21:22	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B02

Lab Sample ID: 500-62293-24

Date Collected: 09/03/13 14:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.031		0.0048	0.0021	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1
Xylenes, Total	<0.0096		0.0096	0.00044	mg/Kg	☼	09/03/13 14:10	09/05/13 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	09/03/13 14:10	09/05/13 20:00	1
Dibromofluoromethane	97		75 - 120	09/03/13 14:10	09/05/13 20:00	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	09/03/13 14:10	09/05/13 20:00	1
Toluene-d8 (Surr)	96		75 - 122	09/03/13 14:10	09/05/13 20:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B02

Lab Sample ID: 500-62293-24

Date Collected: 09/03/13 14:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B02

Lab Sample ID: 500-62293-24

Date Collected: 09/03/13 14:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	09/07/13 15:27	09/10/13 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	39		25 - 110	09/07/13 15:27	09/10/13 20:05	1
Phenol-d5	40		31 - 110	09/07/13 15:27	09/10/13 20:05	1
Nitrobenzene-d5	38		25 - 115	09/07/13 15:27	09/10/13 20:05	1
2-Fluorobiphenyl	39		25 - 119	09/07/13 15:27	09/10/13 20:05	1
2,4,6-Tribromophenol	44		35 - 137	09/07/13 15:27	09/10/13 20:05	1
Terphenyl-d14	43		36 - 134	09/07/13 15:27	09/10/13 20:05	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00080	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
alpha-Chlordane	<0.0020		0.0020	0.00098	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
Endosulfan I	<0.0020		0.0020	0.00085	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
Endosulfan II	<0.0020		0.0020	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
Heptachlor	<0.0020		0.0020	0.00081	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
Methoxychlor	<0.0096		0.0096	0.00038	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1
Toxaphene	<0.019		0.019	0.0082	mg/Kg	☼	09/12/13 07:33	09/17/13 08:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		56 - 128	09/12/13 07:33	09/17/13 08:37	1
Tetrachloro-m-xylene	58		45 - 112	09/12/13 07:33	09/17/13 08:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B02

Lab Sample ID: 500-62293-24

Date Collected: 09/03/13 14:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9500	B	12	1.1	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Arsenic	4.5		0.59	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Barium	80	B	0.59	0.063	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Beryllium	0.67		0.24	0.021	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Boron	3.9		2.9	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Cadmium	0.21	B	0.12	0.015	mg/Kg	☼	09/04/13 12:00	09/15/13 18:08	1
Calcium	2300	B	12	3.2	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Chromium	14		0.59	0.068	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Cobalt	7.9	B	0.29	0.021	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Copper	16		0.59	0.052	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Iron	15000	B	12	4.8	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Lead	15		0.29	0.088	mg/Kg	☼	09/04/13 12:00	09/15/13 18:08	1
Magnesium	2600	B	5.9	1.2	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Manganese	590		0.59	0.032	mg/Kg	☼	09/04/13 12:00	09/15/13 18:08	1
Nickel	17	B	0.59	0.058	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Potassium	1000	B	29	1.8	mg/Kg	☼	09/04/13 12:00	09/15/13 18:08	1
Selenium	0.96		0.59	0.21	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Sodium	95	B	59	7.9	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Thallium	0.36	J	0.59	0.25	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Vanadium	20	B	0.29	0.044	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1
Zinc	46	B	1.2	0.24	mg/Kg	☼	09/04/13 12:00	09/15/13 01:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.81		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 19:54	1
Lead	0.0055	J ^	0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 19:54	1
Manganese	9.4		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 19:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		09/05/13 10:30	09/14/13 14:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 14:14	1
Boron	1.8		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 14:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/15/13 21:19	1
Chromium	0.034		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:14	1
Cobalt	0.012	J	0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 14:14	1
Iron	26		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 14:14	1
Lead	0.024		0.0075	0.0050	mg/L		09/05/13 10:30	09/15/13 21:19	1
Manganese	0.91		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:14	1
Nickel	0.027		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:14	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 14:14	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 14:14	1
Zinc	0.90		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 14:14	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 13:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 13:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B02

Lab Sample ID: 500-62293-24

Date Collected: 09/03/13 14:10

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 11:36	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0085	mg/Kg	☼	09/04/13 14:30	09/05/13 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.89		0.200	0.200	SU			09/12/13 21:22	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B06

Lab Sample ID: 500-62293-25

Date Collected: 09/03/13 13:45

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0023	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Benzene	<0.0052		0.0052	0.00072	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Bromodichloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Carbon tetrachloride	<0.0052		0.0052	0.00096	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00069	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Dibromochloromethane	<0.0052		0.0052	0.00091	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
1,1-Dichloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
1,2-Dichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
1,1-Dichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
1,2-Dichloropropane	<0.0052		0.0052	0.00080	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00069	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Ethylbenzene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00087	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Styrene	<0.0052		0.0052	0.00069	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Tetrachloroethene	<0.0052		0.0052	0.00080	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00072	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00094	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00072	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Trichloroethene	<0.0052		0.0052	0.00087	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Vinyl acetate	<0.0052		0.0052	0.00083	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1
Xylenes, Total	<0.010		0.010	0.00048	mg/Kg	☼	09/03/13 13:45	09/05/13 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	09/03/13 13:45	09/05/13 20:23	1
Dibromofluoromethane	98		75 - 120	09/03/13 13:45	09/05/13 20:23	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	09/03/13 13:45	09/05/13 20:23	1
Toluene-d8 (Surr)	95		75 - 122	09/03/13 13:45	09/05/13 20:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B06

Lab Sample ID: 500-62293-25

Date Collected: 09/03/13 13:45

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B06

Lab Sample ID: 500-62293-25

Date Collected: 09/03/13 13:45

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.0093	J	0.039	0.0089	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	09/07/13 15:27	09/10/13 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	40		25 - 110	09/07/13 15:27	09/10/13 20:23	1
Phenol-d5	40		31 - 110	09/07/13 15:27	09/10/13 20:23	1
Nitrobenzene-d5	36		25 - 115	09/07/13 15:27	09/10/13 20:23	1
2-Fluorobiphenyl	42		25 - 119	09/07/13 15:27	09/10/13 20:23	1
2,4,6-Tribromophenol	42		35 - 137	09/07/13 15:27	09/10/13 20:23	1
Terphenyl-d14	49		36 - 134	09/07/13 15:27	09/10/13 20:23	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00079	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
alpha-Chlordane	<0.0019		0.0019	0.00096	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
beta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
4,4'-DDE	<0.0019		0.0019	0.00032	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
4,4'-DDT	0.0015	J	0.0019	0.0010	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
Dieldrin	0.0063		0.0019	0.00026	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
Endosulfan I	<0.0019		0.0019	0.00083	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
gamma-Chlordane	<0.0019		0.0019	0.00050	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
Heptachlor	<0.0019		0.0019	0.00080	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
Heptachlor epoxide	<0.0019		0.0019	0.00068	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
Methoxychlor	<0.0095		0.0095	0.00037	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1
Toxaphene	<0.019		0.019	0.0080	mg/Kg	☼	09/12/13 07:33	09/17/13 09:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	53	X	56 - 128	09/12/13 07:33	09/17/13 09:16	1
Tetrachloro-m-xylene	58		45 - 112	09/12/13 07:33	09/17/13 09:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B06

Lab Sample ID: 500-62293-25

Date Collected: 09/03/13 13:45

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 84.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000	B	11	1.0	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Arsenic	6.5		0.56	0.11	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Barium	75	B	0.56	0.060	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Beryllium	0.70		0.22	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Boron	6.1		2.8	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Cadmium	0.36	B	0.11	0.014	mg/Kg	☼	09/04/13 12:00	09/15/13 18:16	1
Calcium	16000	B	11	3.0	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Chromium	14		0.56	0.065	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Cobalt	7.0	B	0.28	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Copper	19		0.56	0.050	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Iron	16000	B	11	4.6	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Lead	33		0.28	0.083	mg/Kg	☼	09/04/13 12:00	09/15/13 18:16	1
Magnesium	9500	B	5.6	1.2	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Manganese	520	B	0.56	0.030	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Nickel	17	B	0.56	0.055	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Potassium	1300	B	28	1.7	mg/Kg	☼	09/04/13 12:00	09/15/13 18:16	1
Selenium	0.99		0.56	0.20	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Silver	0.024	J B	0.28	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Sodium	220	B	56	7.5	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Thallium	0.27	J	0.56	0.24	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Vanadium	21	B	0.28	0.041	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1
Zinc	58	B	1.1	0.23	mg/Kg	☼	09/04/13 12:00	09/15/13 01:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 19:59	1
Lead	<0.0075	^	0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 19:59	1
Manganese	0.35		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 19:59	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.90		0.50	0.010	mg/L		09/05/13 10:30	09/14/13 14:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 14:21	1
Boron	1.4		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 14:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/15/13 21:23	1
Chromium	0.046		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:21	1
Cobalt	0.0097	J	0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 14:21	1
Iron	42		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 14:21	1
Lead	0.033		0.0075	0.0050	mg/L		09/05/13 10:30	09/15/13 21:23	1
Manganese	0.21		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:21	1
Nickel	0.034		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:21	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 14:21	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 14:21	1
Zinc	0.75		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 14:21	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 13:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 13:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B06

Lab Sample ID: 500-62293-25

Date Collected: 09/03/13 13:45

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000047	J	0.00020	0.000020	mg/L	-	09/05/13 15:00	09/06/13 11:38	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.019	0.0091	mg/Kg	☼	09/04/13 14:30	09/05/13 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.68		0.200	0.200	SU	-		09/12/13 21:22	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B07

Lab Sample ID: 500-62293-26

Date Collected: 09/03/13 13:30

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 78.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.030		0.0055	0.0024	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Benzene	<0.0055		0.0055	0.00075	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Bromodichloromethane	<0.0055		0.0055	0.00094	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Bromoform	<0.0055		0.0055	0.0013	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Bromomethane	<0.0055		0.0055	0.0017	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Carbon disulfide	<0.0055		0.0055	0.00082	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Carbon tetrachloride	<0.0055		0.0055	0.0010	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Chlorobenzene	<0.0055		0.0055	0.00056	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Chloroethane	<0.0055		0.0055	0.0015	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Chloroform	<0.0055		0.0055	0.00063	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Chloromethane	<0.0055		0.0055	0.0012	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.00078	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.00072	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Dibromochloromethane	<0.0055		0.0055	0.00095	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
1,1-Dichloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
1,1-Dichloroethene	<0.0055		0.0055	0.00089	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
1,2-Dichloropropane	<0.0055		0.0055	0.00083	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.00072	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Ethylbenzene	<0.0055		0.0055	0.0011	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
2-Hexanone	<0.0055		0.0055	0.0016	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Methylene Chloride	<0.0055		0.0055	0.0015	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0014	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Methyl tert-butyl ether	<0.0055		0.0055	0.00091	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Styrene	<0.0055		0.0055	0.00072	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
1,1,1,2-Tetrachloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Tetrachloroethene	<0.0055		0.0055	0.00084	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Toluene	<0.0055		0.0055	0.00077	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.00075	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.00098	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.00075	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Trichloroethene	<0.0055		0.0055	0.00090	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Vinyl acetate	<0.0055		0.0055	0.00086	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Vinyl chloride	<0.0055		0.0055	0.0012	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1
Xylenes, Total	<0.011		0.011	0.00050	mg/Kg	☼	09/03/13 13:30	09/05/13 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	09/03/13 13:30	09/05/13 14:55	1
Dibromofluoromethane	100		75 - 120	09/03/13 13:30	09/05/13 14:55	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	09/03/13 13:30	09/05/13 14:55	1
Toluene-d8 (Surr)	106		75 - 122	09/03/13 13:30	09/05/13 14:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.065	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B07

Lab Sample ID: 500-62293-26

Date Collected: 09/03/13 13:30

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 78.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
2-Methylphenol	<0.21		0.21	0.054	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.045	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
4-Chloroaniline	<0.83		0.83	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
2,4,6-Trichlorophenol	<0.41		0.41	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Acenaphthylene	<0.041		0.041	0.0094	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Diethyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
N-Nitrosodiphenylamine	<0.21		0.21	0.055	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Anthracene	<0.041		0.041	0.0096	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Benzo[a]anthracene	<0.041		0.041	0.0086	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B07

Lab Sample ID: 500-62293-26

Date Collected: 09/03/13 13:30

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 78.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.0093	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Benzo[b]fluoranthene	<0.041		0.041	0.0080	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Benzo[k]fluoranthene	<0.041		0.041	0.0098	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Benzo[a]pyrene	<0.041		0.041	0.0075	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	09/07/13 15:27	09/10/13 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	36		25 - 110	09/07/13 15:27	09/10/13 20:40	1
Phenol-d5	32		31 - 110	09/07/13 15:27	09/10/13 20:40	1
Nitrobenzene-d5	32		25 - 115	09/07/13 15:27	09/10/13 20:40	1
2-Fluorobiphenyl	36		25 - 119	09/07/13 15:27	09/10/13 20:40	1
2,4,6-Tribromophenol	26 X		35 - 137	09/07/13 15:27	09/10/13 20:40	1
Terphenyl-d14	42		36 - 134	09/07/13 15:27	09/10/13 20:40	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00086	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
alpha-BHC	<0.0021		0.0021	0.00053	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
alpha-Chlordane	<0.0021		0.0021	0.0011	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
beta-BHC	<0.0021		0.0021	0.00064	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
4,4'-DDD	<0.0021		0.0021	0.00041	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
4,4'-DDE	<0.0021		0.0021	0.00034	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
delta-BHC	<0.0021		0.0021	0.00065	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
Dieldrin	<0.0021		0.0021	0.00028	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
Endosulfan I	<0.0021		0.0021	0.00091	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
Endosulfan II	<0.0021		0.0021	0.00034	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
Endosulfan sulfate	<0.0021		0.0021	0.00038	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
Endrin	<0.0021		0.0021	0.00029	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
Endrin aldehyde	<0.0021		0.0021	0.00035	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
Endrin ketone	<0.0021		0.0021	0.00047	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
gamma-BHC (Lindane)	<0.0021		0.0021	0.00045	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
gamma-Chlordane	<0.0021		0.0021	0.00055	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
Heptachlor	<0.0021		0.0021	0.00087	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
Heptachlor epoxide	<0.0021		0.0021	0.00074	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
Methoxychlor	<0.010		0.010	0.00040	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1
Toxaphene	<0.021		0.021	0.0088	mg/Kg	☼	09/12/13 07:33	09/17/13 09:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		56 - 128	09/12/13 07:33	09/17/13 09:35	1
Tetrachloro-m-xylene	61		45 - 112	09/12/13 07:33	09/17/13 09:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B07

Lab Sample ID: 500-62293-26

Date Collected: 09/03/13 13:30

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 78.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5700	B	12	1.1	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Arsenic	13		0.58	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Barium	22	B	0.58	0.062	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Beryllium	0.44		0.23	0.021	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Boron	6.2		2.9	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Cadmium	0.33	B	0.12	0.015	mg/Kg	☼	09/04/13 12:00	09/15/13 18:21	1
Calcium	32000	B	12	3.2	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Chromium	10		0.58	0.068	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Cobalt	7.5	B	0.29	0.021	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Copper	27		0.58	0.052	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Iron	18000	B	12	4.8	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Lead	19		0.29	0.087	mg/Kg	☼	09/04/13 12:00	09/15/13 18:21	1
Magnesium	20000	B	5.8	1.2	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Manganese	260	B	0.58	0.032	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Nickel	19	B	0.58	0.057	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Potassium	1100	B	29	1.8	mg/Kg	☼	09/04/13 12:00	09/15/13 18:21	1
Selenium	0.82		0.58	0.21	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Sodium	250	B	58	7.8	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Thallium	0.49	J	0.58	0.25	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Vanadium	13	B	0.29	0.043	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1
Zinc	70	B	1.2	0.24	mg/Kg	☼	09/04/13 12:00	09/15/13 01:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.95		0.50	0.010	mg/L		09/05/13 10:30	09/14/13 14:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 14:27	1
Boron	1.8		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 14:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/15/13 21:27	1
Chromium	<0.025		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:27	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 14:27	1
Iron	2.0		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 14:27	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/05/13 10:30	09/15/13 21:27	1
Manganese	0.027		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:27	1
Nickel	<0.025		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:27	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 14:27	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 14:27	1
Zinc	0.82		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 14:27	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 13:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 13:52	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 11:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B07

Lab Sample ID: 500-62293-26

Date Collected: 09/03/13 13:30

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 78.8

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0088	mg/Kg	☼	09/04/13 14:30	09/05/13 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.48		0.200	0.200	SU			09/12/13 21:22	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B08

Lab Sample ID: 500-62293-27

Date Collected: 09/03/13 13:20

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 83.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.036		0.0050	0.0022	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
2-Butanone (MEK)	0.0059		0.0050	0.0018	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Vinyl acetate	<0.0050		0.0050	0.00079	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	09/03/13 13:20	09/05/13 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	09/03/13 13:20	09/05/13 15:19	1
Dibromofluoromethane	99		75 - 120	09/03/13 13:20	09/05/13 15:19	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	09/03/13 13:20	09/05/13 15:19	1
Toluene-d8 (Surr)	105		75 - 122	09/03/13 13:20	09/05/13 15:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	09/07/13 15:27	09/10/13 20:58	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/07/13 15:27	09/10/13 20:58	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/07/13 15:27	09/10/13 20:58	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/07/13 15:27	09/10/13 20:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B08

Lab Sample ID: 500-62293-27

Date Collected: 09/03/13 13:20

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Isophorone	<0.20		0.20	0.044	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Carbazole	<0.20		0.20	0.055	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Pyrene	<0.039		0.039	0.014	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	*	09/07/13 15:27	09/10/13 20:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B08

Lab Sample ID: 500-62293-27

Date Collected: 09/03/13 13:20

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	09/07/13 15:27	09/10/13 20:58	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/07/13 15:27	09/10/13 20:58	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/07/13 15:27	09/10/13 20:58	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	09/07/13 15:27	09/10/13 20:58	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	09/07/13 15:27	09/10/13 20:58	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	09/07/13 15:27	09/10/13 20:58	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	09/07/13 15:27	09/10/13 20:58	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 20:58	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/07/13 15:27	09/10/13 20:58	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 20:58	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	09/07/13 15:27	09/10/13 20:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		25 - 110	09/07/13 15:27	09/10/13 20:58	1
Phenol-d5	45		31 - 110	09/07/13 15:27	09/10/13 20:58	1
Nitrobenzene-d5	40		25 - 115	09/07/13 15:27	09/10/13 20:58	1
2-Fluorobiphenyl	44		25 - 119	09/07/13 15:27	09/10/13 20:58	1
2,4,6-Tribromophenol	48		35 - 137	09/07/13 15:27	09/10/13 20:58	1
Terphenyl-d14	53		36 - 134	09/07/13 15:27	09/10/13 20:58	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
alpha-Chlordane	<0.0019		0.0019	0.00095	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
4,4'-DDT	<0.0019		0.0019	0.00099	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
Endosulfan I	<0.0019		0.0019	0.00082	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
Heptachlor	<0.0019		0.0019	0.00079	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	09/13/13 07:31	09/17/13 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	56		56 - 128	09/13/13 07:31	09/17/13 14:49	1
Tetrachloro-m-xylene	43	X	45 - 112	09/13/13 07:31	09/17/13 14:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B08

Lab Sample ID: 500-62293-27

Date Collected: 09/03/13 13:20

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 83.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000	B	12	1.1	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Antimony	<1.2		1.2	0.46	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Arsenic	8.1		0.58	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Barium	65	B	0.58	0.062	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Beryllium	0.76		0.23	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Boron	7.6		2.9	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Cadmium	0.16	B	0.12	0.015	mg/Kg	☼	09/04/13 12:00	09/15/13 18:26	1
Calcium	22000	B	12	3.1	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Chromium	18		0.58	0.067	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Cobalt	8.0	B	0.29	0.021	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Copper	24		0.58	0.051	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Iron	21000	B	12	4.8	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Lead	15		0.29	0.086	mg/Kg	☼	09/04/13 12:00	09/15/13 18:26	1
Magnesium	15000	B	5.8	1.2	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Manganese	330	B	0.58	0.031	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Nickel	22	B	0.58	0.057	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Potassium	1500	B	29	1.7	mg/Kg	☼	09/04/13 12:00	09/15/13 18:26	1
Selenium	1.1		0.58	0.21	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Sodium	880	B	58	7.7	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Thallium	0.33	J	0.58	0.24	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Vanadium	24	B	0.29	0.043	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1
Zinc	47	B	1.2	0.23	mg/Kg	☼	09/04/13 12:00	09/15/13 01:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/13 08:30	09/18/13 20:04	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 20:04	1
Iron	0.29		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 20:04	1
Lead	0.0057	J ^	0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 20:04	1
Manganese	3.2		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 20:04	1
Nickel	0.025		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 20:04	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.010	mg/L		09/05/13 10:30	09/14/13 14:48	1
Beryllium	0.0058		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 14:48	1
Boron	1.3		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 14:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/15/13 21:31	1
Chromium	0.11		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:48	1
Cobalt	0.036		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 14:48	1
Iron	120		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 14:48	1
Lead	0.051		0.0075	0.0050	mg/L		09/05/13 10:30	09/15/13 21:31	1
Manganese	1.8		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:48	1
Nickel	0.12		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:48	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 14:48	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 14:48	1
Zinc	0.78		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 14:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B08

Lab Sample ID: 500-62293-27

Date Collected: 09/03/13 13:20

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/13 08:30	09/19/13 11:58	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 13:54	1
Thallium	0.0022		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 13:54	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00019	J	0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 11:42	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.018	0.0086	mg/Kg	☼	09/04/13 14:30	09/05/13 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.70		0.200	0.200	SU			09/12/13 21:22	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B09

Lab Sample ID: 500-62293-28

Date Collected: 09/03/13 13:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.074		0.0049	0.0021	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Benzene	<0.0049		0.0049	0.00066	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
2-Butanone (MEK)	0.0083		0.0049	0.0018	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Carbon disulfide	<0.0049		0.0049	0.00072	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Carbon tetrachloride	<0.0049		0.0049	0.00088	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Dibromochloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
1,1-Dichloroethene	<0.0049		0.0049	0.00078	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Vinyl acetate	<0.0049		0.0049	0.00076	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	09/03/13 13:10	09/05/13 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	09/03/13 13:10	09/05/13 15:42	1
Dibromofluoromethane	98		75 - 120	09/03/13 13:10	09/05/13 15:42	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	09/03/13 13:10	09/05/13 15:42	1
Toluene-d8 (Surr)	104		75 - 122	09/03/13 13:10	09/05/13 15:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B09

Lab Sample ID: 500-62293-28

Date Collected: 09/03/13 13:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B09

Lab Sample ID: 500-62293-28

Date Collected: 09/03/13 13:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/07/13 15:27	09/10/13 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	35		25 - 110	09/07/13 15:27	09/10/13 21:16	1
Phenol-d5	34		31 - 110	09/07/13 15:27	09/10/13 21:16	1
Nitrobenzene-d5	33		25 - 115	09/07/13 15:27	09/10/13 21:16	1
2-Fluorobiphenyl	37		25 - 119	09/07/13 15:27	09/10/13 21:16	1
2,4,6-Tribromophenol	37		35 - 137	09/07/13 15:27	09/10/13 21:16	1
Terphenyl-d14	44		36 - 134	09/07/13 15:27	09/10/13 21:16	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
Endosulfan I	<0.0019		0.0019	0.00082	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	09/13/13 07:31	09/17/13 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	52	X	56 - 128	09/13/13 07:31	09/17/13 21:01	1
Tetrachloro-m-xylene	41	X	45 - 112	09/13/13 07:31	09/17/13 21:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B09

Lab Sample ID: 500-62293-28

Date Collected: 09/03/13 13:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7900	B	11	1.0	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Arsenic	10		0.56	0.11	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Barium	35	B	0.56	0.059	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Beryllium	0.56		0.22	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Boron	8.8		2.8	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Cadmium	0.24	B	0.11	0.014	mg/Kg	☼	09/04/13 12:00	09/15/13 18:39	1
Calcium	46000	B	11	3.0	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Chromium	14		0.56	0.064	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Cobalt	7.6	B	0.28	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Copper	21		0.56	0.049	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Iron	22000	B	11	4.6	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Lead	14		0.28	0.083	mg/Kg	☼	09/04/13 12:00	09/15/13 18:39	1
Magnesium	19000	B	5.6	1.1	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Manganese	300	B	0.56	0.030	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Nickel	21	B	0.56	0.054	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Potassium	1400	B	28	1.7	mg/Kg	☼	09/04/13 12:00	09/15/13 18:39	1
Selenium	0.90		0.56	0.20	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Sodium	440	B	56	7.4	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Thallium	0.53	J	0.56	0.23	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Vanadium	18	B	0.28	0.041	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1
Zinc	49	B	1.1	0.22	mg/Kg	☼	09/04/13 12:00	09/15/13 02:05	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.90		0.50	0.010	mg/L		09/05/13 10:30	09/14/13 14:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 14:54	1
Boron	1.6		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 14:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/15/13 21:35	1
Chromium	<0.025		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:54	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 14:54	1
Iron	0.84		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 14:54	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/05/13 10:30	09/15/13 21:35	1
Manganese	<0.025		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:54	1
Nickel	<0.025		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 14:54	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 14:54	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 14:54	1
Zinc	0.76		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 14:54	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 13:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 13:57	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 11:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Client Sample ID: 846D-70-B09

Lab Sample ID: 500-62293-28

Date Collected: 09/03/13 13:10

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.0

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0085	mg/Kg	☼	09/04/13 14:30	09/05/13 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.87		0.200	0.200	SU			09/12/13 21:22	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com		Project Name: <u>IS6/IL7 Will & Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: _____ of _____ Lab Job No.: <u>500-62293</u> Sample Temp: <u>34.37 38.35</u> Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other										
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.				ANALYSES												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
23	846D-70-B01	9/3/13	1350	S	X	X			X		X	X	X	X		
24	846D-70-B02	9/3/13	1410													
	846D-70-B03															
	846D-70-B04															
	846D-70-B04															
	846D-70-B05															
25	846D-70-B06	9/3/13	1345													
26	846D-70-B07	9/3/13	1330													
27	846D-70-B08	9/3/13	1320													
28	846D-70-B09	9/3/13	1310	S	X	X			X		X	X	X	X		
Relinquished by: <u>Michael P. Marshall</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	9/3/13 @ 1600				
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	9/3/13 1700				
Relinquished by: _____					Date/Time	Received by: _____					Date/Time	_____				

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61605-1
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/13/2013 4:33:19 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B03

Lab Sample ID: 500-61605-1

Date Collected: 08/21/13 14:05

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00075	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	08/21/13 08:10	08/27/13 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/21/13 08:10	08/27/13 00:08	1
Dibromofluoromethane	102		75 - 120	08/21/13 08:10	08/27/13 00:08	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/21/13 08:10	08/27/13 00:08	1
Toluene-d8 (Surr)	94		75 - 122	08/21/13 08:10	08/27/13 00:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B03

Lab Sample ID: 500-61605-1

Date Collected: 08/21/13 14:05

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Pentachlorophenol	<0.75	*	0.75	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B03

Lab Sample ID: 500-61605-1

Date Collected: 08/21/13 14:05

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/03/13 07:37	09/04/13 11:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		25 - 110	09/03/13 07:37	09/04/13 11:01	1
Phenol-d5	52		31 - 110	09/03/13 07:37	09/04/13 11:01	1
Nitrobenzene-d5	56		25 - 115	09/03/13 07:37	09/04/13 11:01	1
2-Fluorobiphenyl	53		25 - 119	09/03/13 07:37	09/04/13 11:01	1
2,4,6-Tribromophenol	81		35 - 137	09/03/13 07:37	09/04/13 11:01	1
Terphenyl-d14	70		36 - 134	09/03/13 07:37	09/04/13 11:01	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
alpha-Chlordane	<0.0019		0.0019	0.00095	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
4,4'-DDT	<0.0019		0.0019	0.00099	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
Endosulfan I	<0.0019		0.0019	0.00082	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
Heptachlor	<0.0019		0.0019	0.00079	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	09/03/13 07:23	09/04/13 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		56 - 128	09/03/13 07:23	09/04/13 18:16	1
Tetrachloro-m-xylene	87		45 - 112	09/03/13 07:23	09/04/13 18:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B03

Lab Sample ID: 500-61605-1

Date Collected: 08/21/13 14:05

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.1	0.44	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1
Arsenic	9.2		0.54	0.11	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1
Barium	36	B	0.54	0.058	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1
Beryllium	0.57		0.22	0.019	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1
Boron	7.6		2.7	0.11	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1
Cadmium	0.22	B	0.11	0.014	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1
Calcium	49000	B	11	2.9	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1
Chromium	15		0.54	0.063	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1
Cobalt	8.9	B	0.27	0.019	mg/Kg	☼	08/22/13 16:00	09/12/13 04:29	1
Copper	24		0.54	0.048	mg/Kg	☼	08/22/13 16:00	09/12/13 04:29	1
Iron	19000		11	4.4	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1
Lead	14	B	0.27	0.081	mg/Kg	☼	08/22/13 16:00	09/12/13 04:29	1
Magnesium	19000	B	5.4	1.1	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1
Manganese	340	B	0.54	0.029	mg/Kg	☼	08/22/13 16:00	09/12/13 04:29	1
Nickel	29	B	0.54	0.053	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1
Potassium	2000	B	27	1.6	mg/Kg	☼	08/22/13 16:00	09/12/13 04:29	1
Selenium	0.80		0.54	0.19	mg/Kg	☼	08/22/13 16:00	09/12/13 04:29	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1
Sodium	84	B	54	7.3	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1
Thallium	0.43	J	0.54	0.23	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1
Vanadium	18	B	0.27	0.040	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1
Zinc	49	B	1.1	0.22	mg/Kg	☼	08/22/13 16:00	09/12/13 04:29	1
Aluminum	9800		11	1.0	mg/Kg	☼	08/22/13 16:00	09/13/13 11:40	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.82	B	0.50	0.010	mg/L		08/28/13 10:00	09/09/13 21:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/09/13 21:41	1
Boron	1.4		0.10	0.050	mg/L		08/28/13 10:00	09/09/13 21:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/09/13 21:41	1
Chromium	<0.025		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 21:41	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 21:41	1
Iron	3.1		0.20	0.20	mg/L		08/28/13 10:00	09/09/13 21:41	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	09/09/13 21:41	1
Manganese	0.019	J	0.025	0.010	mg/L		08/28/13 10:00	09/09/13 21:41	1
Nickel	<0.025		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 21:41	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/09/13 21:41	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 21:41	1
Zinc	0.63		0.10	0.020	mg/L		08/28/13 10:00	09/09/13 21:41	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 18:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 18:45	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 11:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B03

Lab Sample ID: 500-61605-1

Date Collected: 08/21/13 14:05

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.8

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0090	mg/Kg	☼	08/26/13 13:30	08/27/13 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77		0.200	0.200	SU			09/03/13 12:18	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B04

Lab Sample ID: 500-61605-2

Date Collected: 08/21/13 13:50

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.0047	0.0020	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
1,1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Vinyl acetate	<0.0047		0.0047	0.00073	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	08/21/13 13:50	08/27/13 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/21/13 13:50	08/27/13 00:31	1
Dibromofluoromethane	106		75 - 120	08/21/13 13:50	08/27/13 00:31	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/21/13 13:50	08/27/13 00:31	1
Toluene-d8 (Surr)	94		75 - 122	08/21/13 13:50	08/27/13 00:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B04

Lab Sample ID: 500-61605-2

Date Collected: 08/21/13 13:50

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Pentachlorophenol	<0.73	*	0.73	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B04

Lab Sample ID: 500-61605-2

Date Collected: 08/21/13 13:50

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0081	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	09/03/13 07:37	09/04/13 11:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		25 - 110	09/03/13 07:37	09/04/13 11:21	1
Phenol-d5	53		31 - 110	09/03/13 07:37	09/04/13 11:21	1
Nitrobenzene-d5	53		25 - 115	09/03/13 07:37	09/04/13 11:21	1
2-Fluorobiphenyl	52		25 - 119	09/03/13 07:37	09/04/13 11:21	1
2,4,6-Tribromophenol	77		35 - 137	09/03/13 07:37	09/04/13 11:21	1
Terphenyl-d14	66		36 - 134	09/03/13 07:37	09/04/13 11:21	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
alpha-Chlordane	<0.0019		0.0019	0.00095	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
4,4'-DDT	<0.0019		0.0019	0.00099	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
Endosulfan I	<0.0019		0.0019	0.00082	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
Heptachlor	<0.0019		0.0019	0.00079	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	09/03/13 07:23	09/04/13 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	111		56 - 128	09/03/13 07:23	09/04/13 18:36	1
Tetrachloro-m-xylene	83		45 - 112	09/03/13 07:23	09/04/13 18:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B04

Lab Sample ID: 500-61605-2

Date Collected: 08/21/13 13:50

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.1	0.45	mg/Kg	☼	08/22/13 16:00	09/13/13 12:32	1
Arsenic	10		0.56	0.11	mg/Kg	☼	08/22/13 16:00	09/13/13 12:32	1
Barium	32	B	0.56	0.060	mg/Kg	☼	08/22/13 16:00	09/13/13 12:32	1
Beryllium	0.51		0.22	0.020	mg/Kg	☼	08/22/13 16:00	09/13/13 12:32	1
Boron	7.7		2.8	0.12	mg/Kg	☼	08/22/13 16:00	09/13/13 12:32	1
Cadmium	0.26	B	0.11	0.014	mg/Kg	☼	08/22/13 16:00	09/13/13 12:32	1
Calcium	60000	B	110	30	mg/Kg	☼	08/22/13 16:00	09/13/13 15:10	10
Chromium	12		0.56	0.065	mg/Kg	☼	08/22/13 16:00	09/13/13 12:32	1
Cobalt	8.1	B	0.28	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 05:00	1
Copper	26		0.56	0.050	mg/Kg	☼	08/22/13 16:00	09/12/13 05:00	1
Iron	20000		11	4.6	mg/Kg	☼	08/22/13 16:00	09/13/13 12:32	1
Lead	16	B	0.28	0.084	mg/Kg	☼	08/22/13 16:00	09/12/13 05:00	1
Magnesium	24000	B	5.6	1.2	mg/Kg	☼	08/22/13 16:00	09/13/13 12:32	1
Manganese	400	B	0.56	0.030	mg/Kg	☼	08/22/13 16:00	09/12/13 05:00	1
Nickel	29	B	0.56	0.055	mg/Kg	☼	08/22/13 16:00	09/13/13 12:32	1
Potassium	1900	B	28	1.7	mg/Kg	☼	08/22/13 16:00	09/12/13 05:00	1
Selenium	0.81		0.56	0.20	mg/Kg	☼	08/22/13 16:00	09/12/13 05:00	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/22/13 16:00	09/13/13 12:32	1
Sodium	91	B	56	7.5	mg/Kg	☼	08/22/13 16:00	09/13/13 12:32	1
Thallium	0.42	J	0.56	0.24	mg/Kg	☼	08/22/13 16:00	09/13/13 12:32	1
Vanadium	14	B	0.28	0.042	mg/Kg	☼	08/22/13 16:00	09/13/13 12:32	1
Zinc	58	B	1.1	0.23	mg/Kg	☼	08/22/13 16:00	09/12/13 05:00	1
Aluminum	7400		11	1.0	mg/Kg	☼	08/22/13 16:00	09/13/13 12:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/12/13 07:30	09/12/13 15:04	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/12/13 07:30	09/12/13 15:04	1
Manganese	0.37		0.025	0.010	mg/L		09/12/13 07:30	09/12/13 15:04	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.18	J B	0.50	0.010	mg/L		08/28/13 10:00	09/09/13 22:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/09/13 22:06	1
Boron	0.13		0.10	0.050	mg/L		08/28/13 10:00	09/09/13 22:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/09/13 22:06	1
Chromium	0.061		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:06	1
Cobalt	0.019	J	0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 22:06	1
Iron	76		0.20	0.20	mg/L		08/28/13 10:00	09/09/13 22:06	1
Lead	0.040		0.0075	0.0050	mg/L		08/28/13 10:00	09/09/13 22:06	1
Manganese	0.29		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:06	1
Nickel	0.072		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:06	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/09/13 22:06	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 22:06	1
Zinc	0.29		0.10	0.020	mg/L		08/28/13 10:00	09/09/13 22:06	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/12/13 07:30	09/12/13 17:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B04

Lab Sample ID: 500-61605-2

Date Collected: 08/21/13 13:50

Matrix: Solid

Date Received: 08/22/13 06:30

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 18:59	1
Thallium	0.0022		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 18:59	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J	0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 11:19	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0087	mg/Kg	☼	08/26/13 13:30	08/27/13 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.38		0.200	0.200	SU			09/03/13 12:20	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B04 Dup

Lab Sample ID: 500-61605-3

Date Collected: 08/21/13 13:55

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 88.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	08/21/13 13:55	08/27/13 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/21/13 13:55	08/27/13 00:54	1
Dibromofluoromethane	102		75 - 120	08/21/13 13:55	08/27/13 00:54	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/21/13 13:55	08/27/13 00:54	1
Toluene-d8 (Surr)	93		75 - 122	08/21/13 13:55	08/27/13 00:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B04 Dup

Lab Sample ID: 500-61605-3

Date Collected: 08/21/13 13:55

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 88.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Pentachlorophenol	<0.74	*	0.74	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B04 Dup

Lab Sample ID: 500-61605-3

Date Collected: 08/21/13 13:55

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 88.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.0092	J	0.036	0.0082	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Benzo[a]pyrene	0.0076	J	0.036	0.0066	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	09/03/13 07:37	09/04/13 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		25 - 110	09/03/13 07:37	09/04/13 11:42	1
Phenol-d5	56		31 - 110	09/03/13 07:37	09/04/13 11:42	1
Nitrobenzene-d5	57		25 - 115	09/03/13 07:37	09/04/13 11:42	1
2-Fluorobiphenyl	55		25 - 119	09/03/13 07:37	09/04/13 11:42	1
2,4,6-Tribromophenol	76		35 - 137	09/03/13 07:37	09/04/13 11:42	1
Terphenyl-d14	70		36 - 134	09/03/13 07:37	09/04/13 11:42	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0018		0.0018	0.00074	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
alpha-BHC	<0.0018		0.0018	0.00046	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
alpha-Chlordane	<0.0018		0.0018	0.00091	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
beta-BHC	<0.0018		0.0018	0.00056	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
4,4'-DDD	<0.0018		0.0018	0.00036	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
4,4'-DDE	<0.0018		0.0018	0.00030	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
4,4'-DDT	<0.0018		0.0018	0.00094	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
delta-BHC	<0.0018		0.0018	0.00056	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
Dieldrin	<0.0018		0.0018	0.00025	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
Endosulfan I	<0.0018		0.0018	0.00078	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
Endosulfan II	<0.0018		0.0018	0.00029	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
Endosulfan sulfate	<0.0018		0.0018	0.00033	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
Endrin	<0.0018		0.0018	0.00025	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
Endrin aldehyde	<0.0018		0.0018	0.00030	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
Endrin ketone	<0.0018		0.0018	0.00041	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
gamma-BHC (Lindane)	<0.0018		0.0018	0.00039	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
gamma-Chlordane	<0.0018		0.0018	0.00047	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
Heptachlor	<0.0018		0.0018	0.00075	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
Heptachlor epoxide	<0.0018		0.0018	0.00064	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
Methoxychlor	<0.0089		0.0089	0.00035	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1
Toxaphene	<0.018		0.018	0.0076	mg/Kg	☼	09/03/13 07:23	09/04/13 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		56 - 128	09/03/13 07:23	09/04/13 18:55	1
Tetrachloro-m-xylene	86		45 - 112	09/03/13 07:23	09/04/13 18:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B04 Dup

Lab Sample ID: 500-61605-3

Date Collected: 08/21/13 13:55

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 88.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.0	0.42	mg/Kg	☼	08/22/13 16:00	09/13/13 12:36	1
Arsenic	8.7		0.52	0.10	mg/Kg	☼	08/22/13 16:00	09/13/13 12:36	1
Barium	33	B	0.52	0.055	mg/Kg	☼	08/22/13 16:00	09/13/13 12:36	1
Beryllium	0.53		0.21	0.018	mg/Kg	☼	08/22/13 16:00	09/13/13 12:36	1
Boron	8.1		2.6	0.11	mg/Kg	☼	08/22/13 16:00	09/13/13 12:36	1
Cadmium	0.25	B	0.10	0.013	mg/Kg	☼	08/22/13 16:00	09/13/13 12:36	1
Calcium	52000	B	100	28	mg/Kg	☼	08/22/13 16:00	09/13/13 15:14	10
Chromium	13		0.52	0.060	mg/Kg	☼	08/22/13 16:00	09/13/13 12:36	1
Cobalt	11	B	0.26	0.018	mg/Kg	☼	08/22/13 16:00	09/12/13 05:07	1
Copper	24		0.52	0.046	mg/Kg	☼	08/22/13 16:00	09/12/13 05:07	1
Iron	19000		10	4.3	mg/Kg	☼	08/22/13 16:00	09/13/13 12:36	1
Lead	13	B	0.26	0.077	mg/Kg	☼	08/22/13 16:00	09/12/13 05:07	1
Magnesium	22000	B	5.2	1.1	mg/Kg	☼	08/22/13 16:00	09/13/13 12:36	1
Manganese	400	B	0.52	0.028	mg/Kg	☼	08/22/13 16:00	09/12/13 05:07	1
Nickel	32	B	0.52	0.051	mg/Kg	☼	08/22/13 16:00	09/13/13 12:36	1
Potassium	2000	B	26	1.6	mg/Kg	☼	08/22/13 16:00	09/12/13 05:07	1
Selenium	0.67		0.52	0.18	mg/Kg	☼	08/22/13 16:00	09/12/13 05:07	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/22/13 16:00	09/13/13 12:36	1
Sodium	91	B	52	6.9	mg/Kg	☼	08/22/13 16:00	09/13/13 12:36	1
Thallium	0.39	J	0.52	0.22	mg/Kg	☼	08/22/13 16:00	09/13/13 12:36	1
Vanadium	15	B	0.26	0.038	mg/Kg	☼	08/22/13 16:00	09/13/13 12:36	1
Zinc	51	B	1.0	0.21	mg/Kg	☼	08/22/13 16:00	09/12/13 05:07	1
Aluminum	8400		10	0.95	mg/Kg	☼	08/22/13 16:00	09/13/13 12:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.25		0.20	0.20	mg/L		09/12/13 07:30	09/12/13 15:25	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	B	0.50	0.010	mg/L		08/28/13 10:00	09/09/13 22:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/09/13 22:13	1
Boron	1.7		0.10	0.050	mg/L		08/28/13 10:00	09/09/13 22:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/09/13 22:13	1
Chromium	0.011	J	0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:13	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 22:13	1
Iron	6.8		0.20	0.20	mg/L		08/28/13 10:00	09/09/13 22:13	1
Lead	0.0066	J	0.0075	0.0050	mg/L		08/28/13 10:00	09/09/13 22:13	1
Manganese	0.047		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:13	1
Nickel	<0.025		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:13	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/09/13 22:13	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 22:13	1
Zinc	0.75		0.10	0.020	mg/L		08/28/13 10:00	09/09/13 22:13	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 19:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 19:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B04 Dup

Lab Sample ID: 500-61605-3

Date Collected: 08/21/13 13:55

Matrix: Solid

Date Received: 08/22/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 11:25	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0084	mg/Kg	☼	08/26/13 13:30	08/27/13 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		0.200	0.200	SU			09/03/13 12:23	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B05

Lab Sample ID: 500-61605-4

Date Collected: 08/21/13 13:30

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0055		0.0055	0.0024	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Benzene	<0.0055		0.0055	0.00075	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Bromodichloromethane	<0.0055		0.0055	0.00094	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Bromoform	<0.0055		0.0055	0.0013	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Bromomethane	<0.0055		0.0055	0.0016	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Carbon disulfide	<0.0055		0.0055	0.00082	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Carbon tetrachloride	<0.0055		0.0055	0.00099	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Chlorobenzene	<0.0055		0.0055	0.00055	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Chloroethane	<0.0055		0.0055	0.0015	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Chloroform	<0.0055		0.0055	0.00063	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Chloromethane	<0.0055		0.0055	0.0011	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.00077	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.00072	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Dibromochloromethane	<0.0055		0.0055	0.00095	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
1,1-Dichloroethane	<0.0055		0.0055	0.00086	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
1,1-Dichloroethene	<0.0055		0.0055	0.00088	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
1,2-Dichloropropane	<0.0055		0.0055	0.00083	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.00072	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Ethylbenzene	<0.0055		0.0055	0.0011	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
2-Hexanone	<0.0055		0.0055	0.0016	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Methylene Chloride	<0.0055		0.0055	0.0015	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0014	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Methyl tert-butyl ether	<0.0055		0.0055	0.00090	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Styrene	<0.0055		0.0055	0.00072	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Tetrachloroethene	<0.0055		0.0055	0.00083	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Toluene	<0.0055		0.0055	0.00076	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.00075	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.00098	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.00074	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Trichloroethene	<0.0055		0.0055	0.00090	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Vinyl acetate	<0.0055		0.0055	0.00086	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Vinyl chloride	<0.0055		0.0055	0.0011	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	08/21/13 13:30	08/27/13 01:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	08/21/13 13:30	08/27/13 01:17	1
Dibromofluoromethane	105		75 - 120	08/21/13 13:30	08/27/13 01:17	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/21/13 13:30	08/27/13 01:17	1
Toluene-d8 (Surr)	94		75 - 122	08/21/13 13:30	08/27/13 01:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B05

Lab Sample ID: 500-61605-4

Date Collected: 08/21/13 13:30

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Pentachlorophenol	<0.77	*	0.77	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Fluoranthene	0.040		0.038	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Pyrene	0.030	J	0.038	0.014	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Benzo[a]anthracene	0.025	J	0.038	0.0080	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B05

Lab Sample ID: 500-61605-4

Date Collected: 08/21/13 13:30

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.036	J	0.038	0.0086	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Benzo[b]fluoranthene	0.045		0.038	0.0074	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Benzo[k]fluoranthene	0.016	J	0.038	0.0091	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Benzo[a]pyrene	0.027	J	0.038	0.0070	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Indeno[1,2,3-cd]pyrene	0.020	J	0.038	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
Benzo[g,h,i]perylene	0.024	J	0.038	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/03/13 07:37	09/04/13 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		25 - 110	09/03/13 07:37	09/04/13 16:34	1
Phenol-d5	54		31 - 110	09/03/13 07:37	09/04/13 16:34	1
Nitrobenzene-d5	65		25 - 115	09/03/13 07:37	09/04/13 16:34	1
2-Fluorobiphenyl	64		25 - 119	09/03/13 07:37	09/04/13 16:34	1
2,4,6-Tribromophenol	88		35 - 137	09/03/13 07:37	09/04/13 16:34	1
Terphenyl-d14	67		36 - 134	09/03/13 07:37	09/04/13 16:34	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00082	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
alpha-BHC	<0.0020		0.0020	0.00050	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
alpha-Chlordane	<0.0020		0.0020	0.0010	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
beta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
delta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
Dieldrin	0.0021		0.0020	0.00027	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
Endosulfan I	<0.0020		0.0020	0.00086	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
Endrin ketone	<0.0020		0.0020	0.00045	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00043	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
gamma-Chlordane	<0.0020		0.0020	0.00052	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
Heptachlor	<0.0020		0.0020	0.00083	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
Heptachlor epoxide	<0.0020		0.0020	0.00070	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
Methoxychlor	<0.0098		0.0098	0.00038	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1
Toxaphene	<0.020		0.020	0.0083	mg/Kg	☼	09/03/13 07:23	09/04/13 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		56 - 128	09/03/13 07:23	09/04/13 19:35	1
Tetrachloro-m-xylene	89		45 - 112	09/03/13 07:23	09/04/13 19:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B05

Lab Sample ID: 500-61605-4

Date Collected: 08/21/13 13:30

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 83.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Arsenic	7.3		0.57	0.11	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Barium	69	B	0.57	0.061	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Beryllium	0.57		0.23	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Boron	2.9		2.9	0.12	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Cadmium	<0.11		0.11	0.014	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Calcium	5600	B	11	3.1	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Chromium	12		0.57	0.066	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Cobalt	17	B	0.29	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Copper	13		0.57	0.051	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Iron	21000		11	4.7	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Lead	23	B	0.29	0.085	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Magnesium	3700	B	5.7	1.2	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Manganese	1300	B	5.7	0.31	mg/Kg	☼	08/22/13 16:00	09/13/13 12:41	10
Nickel	13	B	0.57	0.056	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Potassium	870	B	29	1.7	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Selenium	1.6		0.57	0.20	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Sodium	84	B	57	7.6	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Vanadium	21	B	0.29	0.042	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Zinc	35	B	1.1	0.23	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1
Aluminum	7200		11	1.0	mg/Kg	☼	08/22/13 16:00	09/12/13 05:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.37		0.20	0.20	mg/L		09/12/13 07:30	09/12/13 15:30	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.84	B	0.50	0.010	mg/L		08/28/13 10:00	09/09/13 22:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/09/13 22:19	1
Boron	1.3		0.10	0.050	mg/L		08/28/13 10:00	09/09/13 22:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/09/13 22:19	1
Chromium	0.016	J	0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:19	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 22:19	1
Iron	9.7		0.20	0.20	mg/L		08/28/13 10:00	09/09/13 22:19	1
Lead	0.0054	J	0.0075	0.0050	mg/L		08/28/13 10:00	09/09/13 22:19	1
Manganese	0.058		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:19	1
Nickel	0.011	J	0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:19	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/09/13 22:19	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 22:19	1
Zinc	0.60		0.10	0.020	mg/L		08/28/13 10:00	09/09/13 22:19	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 19:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 19:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Client Sample ID: 846D-70-B05

Lab Sample ID: 500-61605-4

Date Collected: 08/21/13 13:30

Matrix: Solid

Date Received: 08/22/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 11:27	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0083	mg/Kg	*	08/26/13 13:30	08/27/13 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.05		0.200	0.200	SU			09/03/13 12:25	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F	MS/MSD Recovery and/or RPD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	Duplicate RPD exceeds the control limit
F	MS/MSD Recovery and/or RPD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13525 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59937 Longitude: -87.94910
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1978070001 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59937 Longitude: -87.94910

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-71-B01 THROUGH -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-71. SEE FIGURE 13 AND TABLE 3bf OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-62293-4

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

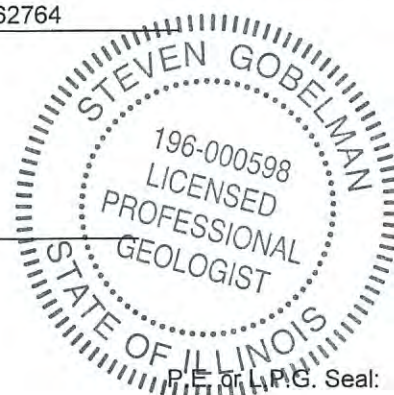
Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/3/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-71

Vacant Commercial Building

Sample ID	846D-71-B01	846D-71-B02	846D-71-B03	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-3	0-3	0-3						
Sample Date	9/3/2013	9/3/2013	9/3/2013						
PID	0	0	0						
Sample pH	7.74	8.25	7.8						
Matrix	Soil	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62293-4
Client Project/Site: IDOT - Gougar Road - WO 023
Revision: 1

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/24/2013 9:24:12 AM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-4

Client Sample ID: 846D-71-B01

Lab Sample ID: 500-62293-29

Date Collected: 09/03/13 15:30

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.010		0.0044	0.0019	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	09/03/13 15:30	09/05/13 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/03/13 15:30	09/05/13 16:06	1
Dibromofluoromethane	96		75 - 120	09/03/13 15:30	09/05/13 16:06	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	09/03/13 15:30	09/05/13 16:06	1
Toluene-d8 (Surr)	104		75 - 122	09/03/13 15:30	09/05/13 16:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-4

Client Sample ID: 846D-71-B01

Lab Sample ID: 500-62293-29

Date Collected: 09/03/13 15:30

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Hexachlorobenzene	<0.079		0.079	0.0078	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Benzo[a]anthracene	0.0092	J	0.039	0.0083	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-4

Client Sample ID: 846D-71-B01

Lab Sample ID: 500-62293-29

Date Collected: 09/03/13 15:30

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.039	0.0089	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Benzo[b]fluoranthene	0.012	J	0.039	0.0076	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Benzo[a]pyrene	0.011	J	0.039	0.0072	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
Benzo[g,h,i]perylene	0.015	J	0.039	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	09/07/13 15:27	09/10/13 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	41		25 - 110	09/07/13 15:27	09/10/13 21:34	1
Phenol-d5	42		31 - 110	09/07/13 15:27	09/10/13 21:34	1
Nitrobenzene-d5	39		25 - 115	09/07/13 15:27	09/10/13 21:34	1
2-Fluorobiphenyl	42		25 - 119	09/07/13 15:27	09/10/13 21:34	1
2,4,6-Tribromophenol	35		35 - 137	09/07/13 15:27	09/10/13 21:34	1
Terphenyl-d14	51		36 - 134	09/07/13 15:27	09/10/13 21:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000	B	12	1.1	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Antimony	<1.2		1.2	0.48	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Arsenic	11		0.59	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Barium	59	B	0.59	0.063	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Beryllium	0.81		0.24	0.021	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Boron	7.6		3.0	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Cadmium	0.24	B	0.12	0.015	mg/Kg	☼	09/04/13 12:00	09/15/13 18:44	1
Calcium	4500	B	12	3.2	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Chromium	19		0.59	0.069	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Cobalt	11	B	0.30	0.021	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Copper	34		0.59	0.053	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Iron	27000	B	12	4.9	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Lead	24		0.30	0.088	mg/Kg	☼	09/04/13 12:00	09/15/13 18:44	1
Magnesium	5400	B	5.9	1.2	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Manganese	320	B	0.59	0.032	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Nickel	32	B	0.59	0.058	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Potassium	1600	B	30	1.8	mg/Kg	☼	09/04/13 12:00	09/15/13 18:44	1
Selenium	1.2		0.59	0.21	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Sodium	1200	B	59	7.9	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Thallium	0.88		0.59	0.25	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Vanadium	24	B	0.30	0.044	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1
Zinc	73	B	1.2	0.24	mg/Kg	☼	09/04/13 12:00	09/15/13 02:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/13 08:30	09/18/13 20:09	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 20:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-4

Client Sample ID: 846D-71-B01

Lab Sample ID: 500-62293-29

Date Collected: 09/03/13 15:30

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 20:09	1
Lead	0.017	^	0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 20:09	1
Manganese	6.8		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 20:09	1
Nickel	0.024	J	0.025	0.010	mg/L		09/18/13 08:30	09/18/13 20:09	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		09/05/13 10:30	09/14/13 15:00	1
Beryllium	0.0076		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 15:00	1
Boron	1.5		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 15:00	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		09/05/13 10:30	09/15/13 21:39	1
Chromium	0.16		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:00	1
Cobalt	0.074		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 15:00	1
Iron	190		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 15:00	1
Lead	0.10		0.0075	0.0050	mg/L		09/05/13 10:30	09/15/13 21:39	1
Manganese	2.4		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:00	1
Nickel	0.21		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:00	1
Selenium	0.012	J	0.050	0.010	mg/L		09/05/13 10:30	09/14/13 15:00	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 15:00	1
Zinc	1.1		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 15:00	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/13 08:30	09/19/13 11:59	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 14:00	1
Thallium	0.0039		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 14:00	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 11:50	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.020	0.0093	mg/Kg	☼	09/04/13 14:30	09/05/13 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.74		0.200	0.200	SU			09/12/13 21:22	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-4

Client Sample ID: 846D-71-B02

Lab Sample ID: 500-62293-30

Date Collected: 09/03/13 15:45

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0084		0.0042	0.0018	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Chloromethane	<0.0042		0.0042	0.00087	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Dibromochloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
1,1-Dichloroethene	<0.0042		0.0042	0.00067	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Tetrachloroethene	<0.0042		0.0042	0.00063	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00074	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Vinyl acetate	<0.0042		0.0042	0.00065	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Vinyl chloride	<0.0042		0.0042	0.00087	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	09/03/13 15:45	09/05/13 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	09/03/13 15:45	09/05/13 16:30	1
Dibromofluoromethane	97		75 - 120	09/03/13 15:45	09/05/13 16:30	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	09/03/13 15:45	09/05/13 16:30	1
Toluene-d8 (Surr)	104		75 - 122	09/03/13 15:45	09/05/13 16:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	09/07/13 15:27	09/10/13 21:51	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	09/07/13 15:27	09/10/13 21:51	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:27	09/10/13 21:51	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/07/13 15:27	09/10/13 21:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-4

Client Sample ID: 846D-71-B02

Lab Sample ID: 500-62293-30

Date Collected: 09/03/13 15:45

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Isophorone	<0.18		0.18	0.040	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Carbazole	<0.18		0.18	0.051	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Pyrene	<0.036		0.036	0.013	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	*	09/07/13 15:27	09/10/13 21:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-4

Client Sample ID: 846D-71-B02

Lab Sample ID: 500-62293-30

Date Collected: 09/03/13 15:45

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 87.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0081	mg/Kg	☼	09/07/13 15:27	09/10/13 21:51	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/07/13 15:27	09/10/13 21:51	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 21:51	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	09/07/13 15:27	09/10/13 21:51	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	09/07/13 15:27	09/10/13 21:51	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	09/07/13 15:27	09/10/13 21:51	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	09/07/13 15:27	09/10/13 21:51	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 21:51	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/07/13 15:27	09/10/13 21:51	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 21:51	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	09/07/13 15:27	09/10/13 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		25 - 110	09/07/13 15:27	09/10/13 21:51	1
Phenol-d5	49		31 - 110	09/07/13 15:27	09/10/13 21:51	1
Nitrobenzene-d5	45		25 - 115	09/07/13 15:27	09/10/13 21:51	1
2-Fluorobiphenyl	51		25 - 119	09/07/13 15:27	09/10/13 21:51	1
2,4,6-Tribromophenol	34	X	35 - 137	09/07/13 15:27	09/10/13 21:51	1
Terphenyl-d14	58		36 - 134	09/07/13 15:27	09/10/13 21:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7500	B	11	1.0	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Arsenic	8.0		0.56	0.11	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Barium	38	B	0.56	0.060	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Beryllium	0.55		0.22	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Boron	8.2		2.8	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Cadmium	0.20	B	0.11	0.014	mg/Kg	☼	09/04/13 12:00	09/15/13 18:49	1
Calcium	50000	B	11	3.0	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Chromium	13		0.56	0.065	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Cobalt	9.1	B	0.28	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Copper	20		0.56	0.049	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Iron	17000	B	11	4.6	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Lead	13		0.28	0.083	mg/Kg	☼	09/04/13 12:00	09/15/13 18:49	1
Magnesium	21000	B	5.6	1.1	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Manganese	430	B	0.56	0.030	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Nickel	23	B	0.56	0.055	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Potassium	1300	B	28	1.7	mg/Kg	☼	09/04/13 12:00	09/15/13 18:49	1
Selenium	0.64		0.56	0.20	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Silver	0.056	J B	0.28	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Sodium	1400	B	56	7.5	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Thallium	0.33	J	0.56	0.24	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Vanadium	18	B	0.28	0.041	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1
Zinc	42	B	1.1	0.23	mg/Kg	☼	09/04/13 12:00	09/15/13 02:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/13 08:30	09/18/13 20:14	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 20:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-4

Client Sample ID: 846D-71-B02

Lab Sample ID: 500-62293-30

Date Collected: 09/03/13 15:45

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 20:14	1
Lead	<0.0075	^	0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 20:14	1
Manganese	0.37		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 20:14	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 20:14	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2		0.50	0.010	mg/L		09/05/13 10:30	09/14/13 15:06	1
Beryllium	0.0069		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 15:06	1
Boron	1.7		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 15:06	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		09/05/13 10:30	09/15/13 21:44	1
Chromium	0.14		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:06	1
Cobalt	0.047		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 15:06	1
Iron	170		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 15:06	1
Lead	0.082		0.0075	0.0050	mg/L		09/05/13 10:30	09/15/13 21:44	1
Manganese	0.68		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:06	1
Nickel	0.15		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:06	1
Selenium	0.011	J	0.050	0.010	mg/L		09/05/13 10:30	09/14/13 15:06	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 15:06	1
Zinc	1.1		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 15:06	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/13 08:30	09/19/13 12:00	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 14:02	1
Thallium	0.0038		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 14:02	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 11:52	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.017	0.0078	mg/Kg	☼	09/05/13 14:30	09/06/13 10:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.25		0.200	0.200	SU			09/12/13 21:22	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-4

Client Sample ID: 846D-71-B03

Lab Sample ID: 500-62293-31

Date Collected: 09/03/13 15:55

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 81.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.092		0.0045	0.0020	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
2-Butanone (MEK)	0.0078		0.0045	0.0016	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	09/03/13 15:55	09/05/13 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	09/03/13 15:55	09/05/13 16:53	1
Dibromofluoromethane	104		75 - 120	09/03/13 15:55	09/05/13 16:53	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	09/03/13 15:55	09/05/13 16:53	1
Toluene-d8 (Surr)	106		75 - 122	09/03/13 15:55	09/05/13 16:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-4

Client Sample ID: 846D-71-B03

Lab Sample ID: 500-62293-31

Date Collected: 09/03/13 15:55

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-4

Client Sample ID: 846D-71-B03

Lab Sample ID: 500-62293-31

Date Collected: 09/03/13 15:55

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/07/13 15:27	09/10/13 22:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		25 - 110	09/07/13 15:27	09/10/13 22:09	1
Phenol-d5	51		31 - 110	09/07/13 15:27	09/10/13 22:09	1
Nitrobenzene-d5	54		25 - 115	09/07/13 15:27	09/10/13 22:09	1
2-Fluorobiphenyl	57		25 - 119	09/07/13 15:27	09/10/13 22:09	1
2,4,6-Tribromophenol	45		35 - 137	09/07/13 15:27	09/10/13 22:09	1
Terphenyl-d14	66		36 - 134	09/07/13 15:27	09/10/13 22:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000	B	12	1.1	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Arsenic	9.0		0.58	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Barium	53	B	0.58	0.063	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Beryllium	0.69		0.23	0.021	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Boron	9.3		2.9	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Cadmium	0.26	B	0.12	0.015	mg/Kg	☼	09/04/13 12:00	09/15/13 18:54	1
Calcium	40000	B	12	3.2	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Chromium	17		0.58	0.068	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Cobalt	12	B	0.29	0.021	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Copper	21		0.58	0.052	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Iron	20000	B	12	4.8	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Lead	17		0.29	0.087	mg/Kg	☼	09/04/13 12:00	09/15/13 18:54	1
Magnesium	22000	B	5.8	1.2	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Manganese	620		0.58	0.032	mg/Kg	☼	09/04/13 12:00	09/15/13 18:54	1
Nickel	31	B	0.58	0.057	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Potassium	1900	B	29	1.8	mg/Kg	☼	09/04/13 12:00	09/15/13 18:54	1
Selenium	0.81		0.58	0.21	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Silver	0.022	J B	0.29	0.021	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Sodium	230	B	58	7.8	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Thallium	0.73		0.58	0.25	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Vanadium	21	B	0.29	0.043	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1
Zinc	49	B	1.2	0.24	mg/Kg	☼	09/04/13 12:00	09/15/13 02:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 21:12	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 21:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-4

Client Sample ID: 846D-71-B03

Lab Sample ID: 500-62293-31

Date Collected: 09/03/13 15:55

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 21:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.92		0.50	0.010	mg/L		09/05/13 10:30	09/14/13 15:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 15:13	1
Boron	1.4		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 15:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/15/13 21:49	1
Chromium	0.033		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:13	1
Cobalt	0.0086	J	0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 15:13	1
Iron	29		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 15:13	1
Lead	0.010		0.0075	0.0050	mg/L		09/05/13 10:30	09/15/13 21:49	1
Manganese	0.26		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:13	1
Nickel	0.029		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:13	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 15:13	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 15:13	1
Zinc	0.67		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 15:13	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 14:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 14:05	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 11:54	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0089	mg/Kg	☼	09/05/13 14:30	09/06/13 10:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.80		0.200	0.200	SU			09/12/13 21:22	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-4

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13515 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59950 Longitude: -87.94785
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 1978070001 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59950 Longitude: -87.94785

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-74-B01 THROUGH -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-74. SEE FIGURE 13 AND TABLE 3bg OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-62293-5

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

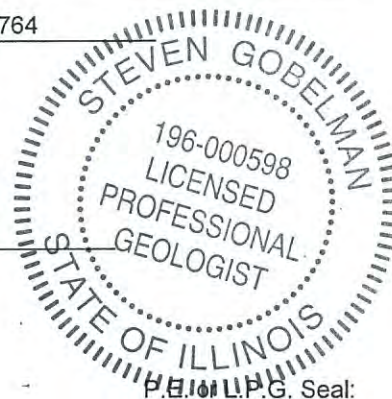
Steven Gobelman

Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

1/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

**ISGS Site 846D-74
Wheel-Go Camping**

Sample ID	846D-74-B01	846D-74-B02	846D-74-B02 DUP	846D-74-B03							
Sample Depth (ft)	0-3	0-3	0-3	0-3							
Sample Date	9/3/2013	9/3/2013	9/3/2013	9/3/2013							
PID	0	0	0	0							
Sample pH	8.38	8.01	8.27	8							
Matrix	Soil	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)pyrene	ND	J 0.0092	ND	0.13	1,2	0.09	0.09	0.98	1.3	2.1	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62293-5
Client Project/Site: IDOT - Gougar Road - WO 023
Revision: 1

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
10/24/2013 9:25:13 AM

Richard Wright, Project Manager II
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B01

Lab Sample ID: 500-62293-32

Date Collected: 09/03/13 15:15

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.036		0.0047	0.0020	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
2-Butanone (MEK)	0.0073		0.0047	0.0017	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	09/03/13 15:15	09/05/13 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	09/03/13 15:15	09/05/13 17:17	1
Dibromofluoromethane	104		75 - 120	09/03/13 15:15	09/05/13 17:17	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	09/03/13 15:15	09/05/13 17:17	1
Toluene-d8 (Surr)	108		75 - 122	09/03/13 15:15	09/05/13 17:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B01

Lab Sample ID: 500-62293-32

Date Collected: 09/03/13 15:15

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Benzo[a]anthracene	0.0088	J	0.038	0.0080	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B01

Lab Sample ID: 500-62293-32

Date Collected: 09/03/13 15:15

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.038	0.0086	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/07/13 15:27	09/10/13 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		25 - 110				09/07/13 15:27	09/10/13 22:27	1
Phenol-d5	51		31 - 110				09/07/13 15:27	09/10/13 22:27	1
Nitrobenzene-d5	45		25 - 115				09/07/13 15:27	09/10/13 22:27	1
2-Fluorobiphenyl	55		25 - 119				09/07/13 15:27	09/10/13 22:27	1
2,4,6-Tribromophenol	50		35 - 137				09/07/13 15:27	09/10/13 22:27	1
Terphenyl-d14	63		36 - 134				09/07/13 15:27	09/10/13 22:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000	B	11	1.1	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Arsenic	3.0		0.57	0.11	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Barium	80	B	0.57	0.061	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Beryllium	0.63		0.23	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Boron	9.6		2.9	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Cadmium	0.18	B	0.11	0.015	mg/Kg	☼	09/04/13 12:00	09/15/13 19:03	1
Calcium	47000	B	11	3.1	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Chromium	16		0.57	0.067	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Cobalt	5.6	B	0.29	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Copper	13		0.57	0.051	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Iron	14000	B	11	4.7	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Lead	10		0.29	0.085	mg/Kg	☼	09/04/13 12:00	09/15/13 19:03	1
Magnesium	23000	B	5.7	1.2	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Manganese	300	B	0.57	0.031	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Nickel	17	B	0.57	0.056	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Potassium	1600	B	29	1.7	mg/Kg	☼	09/04/13 12:00	09/15/13 19:03	1
Selenium	0.42	J	0.57	0.20	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Sodium	1200	B	57	7.7	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Vanadium	18	B	0.29	0.042	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1
Zinc	41	B	1.1	0.23	mg/Kg	☼	09/04/13 12:00	09/15/13 02:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/13 08:30	09/18/13 21:37	1
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 21:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B01

Lab Sample ID: 500-62293-32

Date Collected: 09/03/13 15:15

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 21:37	1
Manganese	4.2		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 21:37	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		09/05/13 10:30	09/14/13 15:19	1
Beryllium	0.0044		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 15:19	1
Boron	1.7		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 15:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/15/13 21:53	1
Chromium	0.088		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:19	1
Cobalt	0.031		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 15:19	1
Iron	86		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 15:19	1
Lead	0.060		0.0075	0.0050	mg/L		09/05/13 10:30	09/15/13 21:53	1
Manganese	1.1		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:19	1
Nickel	0.083		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:19	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 15:19	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 15:19	1
Zinc	0.94		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 15:19	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 14:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 14:07	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 11:56	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0089	mg/Kg	☼	09/05/13 14:30	09/06/13 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.38		0.200	0.200	SU			09/12/13 21:22	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B02

Lab Sample ID: 500-62293-33

Date Collected: 09/03/13 15:00

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 77.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.019		0.0054	0.0023	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Bromodichloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
2-Butanone (MEK)	<0.0054		0.0054	0.0020	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Carbon disulfide	<0.0054		0.0054	0.00081	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Carbon tetrachloride	<0.0054		0.0054	0.00098	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Dibromochloromethane	<0.0054		0.0054	0.00094	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
1,1-Dichloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
1,1-Dichloroethene	<0.0054		0.0054	0.00087	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
1,2-Dichloropropane	<0.0054		0.0054	0.00082	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00089	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Tetrachloroethene	<0.0054		0.0054	0.00082	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Toluene	<0.0054		0.0054	0.00075	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00097	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00074	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Trichloroethene	<0.0054		0.0054	0.00089	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Vinyl acetate	<0.0054		0.0054	0.00085	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	09/03/13 15:00	09/05/13 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	09/03/13 15:00	09/05/13 17:41	1
Dibromofluoromethane	100		75 - 120	09/03/13 15:00	09/05/13 17:41	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	09/03/13 15:00	09/05/13 17:41	1
Toluene-d8 (Surr)	107		75 - 122	09/03/13 15:00	09/05/13 17:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.067	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B02

Lab Sample ID: 500-62293-33

Date Collected: 09/03/13 15:00

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 77.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
2-Methylphenol	<0.21		0.21	0.056	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.054	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.047	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Naphthalene	<0.042		0.042	0.0081	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
4-Chloroaniline	<0.85		0.85	0.13	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
2,4,6-Trichlorophenol	<0.42		0.42	0.053	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Hexachlorocyclopentadiene	<0.85		0.85	0.20	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
2-Methylnaphthalene	<0.21		0.21	0.055	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
2-Nitroaniline	<0.21		0.21	0.076	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
2-Nitrophenol	<0.42		0.42	0.066	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
3-Nitroaniline	<0.42		0.42	0.081	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
2,4-Dinitrophenol	<0.85		0.85	0.22	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Acenaphthylene	<0.042		0.042	0.0097	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Dibenzofuran	<0.21		0.21	0.051	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
4-Nitrophenol	<0.85		0.85	0.23	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Fluorene	<0.042		0.042	0.0096	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
4-Nitroaniline	<0.42		0.42	0.086	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Hexachlorobenzene	<0.085		0.085	0.0083	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Pentachlorophenol	<0.85		0.85	0.21	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Phenanthrene	<0.042		0.042	0.018	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Anthracene	<0.042		0.042	0.0099	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Fluoranthene	<0.042		0.042	0.017	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Pyrene	0.017	J	0.042	0.015	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Butyl benzyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Benzo[a]anthracene	<0.042		0.042	0.0088	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B02

Lab Sample ID: 500-62293-33

Date Collected: 09/03/13 15:00

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 77.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.018	J	0.042	0.0095	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.056	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Di-n-octyl phthalate	<0.21		0.21	0.086	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Benzo[b]fluoranthene	0.011	J	0.042	0.0082	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Benzo[k]fluoranthene	<0.042		0.042	0.010	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Benzo[a]pyrene	0.0092	J	0.042	0.0077	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.014	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Dibenz(a,h)anthracene	<0.042		0.042	0.012	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
Benzo[g,h,i]perylene	0.014	J	0.042	0.014	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1
3 & 4 Methylphenol	<0.21		0.21	0.080	mg/Kg	☼	09/07/13 15:27	09/10/13 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	37		25 - 110	09/07/13 15:27	09/10/13 22:45	1
Phenol-d5	39		31 - 110	09/07/13 15:27	09/10/13 22:45	1
Nitrobenzene-d5	34		25 - 115	09/07/13 15:27	09/10/13 22:45	1
2-Fluorobiphenyl	43		25 - 119	09/07/13 15:27	09/10/13 22:45	1
2,4,6-Tribromophenol	41		35 - 137	09/07/13 15:27	09/10/13 22:45	1
Terphenyl-d14	61		36 - 134	09/07/13 15:27	09/10/13 22:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7800	B	12	1.1	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Antimony	<1.2		1.2	0.50	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Arsenic	7.9		0.62	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Barium	35	B	0.62	0.066	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Beryllium	0.61		0.25	0.022	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Boron	9.9		3.1	0.13	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Cadmium	0.30	B	0.12	0.016	mg/Kg	☼	09/04/13 12:00	09/15/13 19:08	1
Calcium	58000	B	12	3.3	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Chromium	13		0.62	0.072	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Cobalt	9.0	B	0.31	0.022	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Copper	22		0.62	0.055	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Iron	18000	B	12	5.1	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Lead	27		0.31	0.092	mg/Kg	☼	09/04/13 12:00	09/15/13 19:08	1
Magnesium	29000	B	6.2	1.3	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Manganese	410	B	0.62	0.034	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Nickel	21	B	0.62	0.061	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Potassium	1500	B	31	1.9	mg/Kg	☼	09/04/13 12:00	09/15/13 19:08	1
Selenium	0.74		0.62	0.22	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Sodium	1300	B	62	8.3	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Thallium	0.31	J	0.62	0.26	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Vanadium	17	B	0.31	0.046	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1
Zinc	74	B	1.2	0.25	mg/Kg	☼	09/04/13 12:00	09/15/13 02:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/13 08:30	09/18/13 21:43	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 21:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B02

Lab Sample ID: 500-62293-33

Date Collected: 09/03/13 15:00

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 21:43	1
Lead	0.0058	J	0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 21:43	1
Manganese	7.4		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 21:43	1
Nickel	0.023	J	0.025	0.010	mg/L		09/18/13 08:30	09/18/13 21:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		09/05/13 10:30	09/14/13 15:25	1
Beryllium	0.0090		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 15:25	1
Boron	1.2		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 15:25	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		09/05/13 10:30	09/15/13 22:05	1
Chromium	0.18		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:25	1
Cobalt	0.099		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 15:25	1
Iron	230		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 15:25	1
Lead	0.17		0.0075	0.0050	mg/L		09/05/13 10:30	09/15/13 22:05	1
Manganese	2.8		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:25	1
Nickel	0.24		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:25	1
Selenium	0.012	J	0.050	0.010	mg/L		09/05/13 10:30	09/14/13 15:25	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 15:25	1
Zinc	1.6		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 15:25	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/13 08:30	09/19/13 12:04	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 14:10	1
Thallium	0.0042		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 14:10	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00045		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 11:58	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.021	0.0097	mg/Kg	☼	09/05/13 14:30	09/06/13 11:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01		0.200	0.200	SU			09/12/13 21:22	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B02 DUP

Lab Sample ID: 500-62293-34

Date Collected: 09/03/13 15:05

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.0043	0.0019	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
2-Butanone (MEK)	0.0060		0.0043	0.0016	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
1,1-Dichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	09/03/13 15:05	09/05/13 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	09/03/13 15:05	09/05/13 18:04	1
Dibromofluoromethane	101		75 - 120	09/03/13 15:05	09/05/13 18:04	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/03/13 15:05	09/05/13 18:04	1
Toluene-d8 (Surr)	108		75 - 122	09/03/13 15:05	09/05/13 18:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B02 DUP

Lab Sample ID: 500-62293-34

Date Collected: 09/03/13 15:05

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Pentachlorophenol	<0.76	*	0.76	0.19	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B02 DUP

Lab Sample ID: 500-62293-34

Date Collected: 09/03/13 15:05

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/05/13 07:32	09/05/13 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	35		25 - 110	09/05/13 07:32	09/05/13 23:34	1
Phenol-d5	43		31 - 110	09/05/13 07:32	09/05/13 23:34	1
Nitrobenzene-d5	42		25 - 115	09/05/13 07:32	09/05/13 23:34	1
2-Fluorobiphenyl	53		25 - 119	09/05/13 07:32	09/05/13 23:34	1
2,4,6-Tribromophenol	46		35 - 137	09/05/13 07:32	09/05/13 23:34	1
Terphenyl-d14	71		36 - 134	09/05/13 07:32	09/05/13 23:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5900	B	11	1.0	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Arsenic	8.6		0.55	0.11	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Barium	26	B	0.55	0.059	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Beryllium	0.43		0.22	0.019	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Boron	6.5		2.8	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Cadmium	0.26	B	0.11	0.014	mg/Kg	☼	09/04/13 12:00	09/15/13 19:13	1
Calcium	42000	B	11	3.0	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Chromium	11		0.55	0.064	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Cobalt	8.5	B	0.28	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Copper	21		0.55	0.049	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Iron	17000	B	11	4.5	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Lead	19		0.28	0.082	mg/Kg	☼	09/04/13 12:00	09/15/13 19:13	1
Magnesium	20000	B	5.5	1.1	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Manganese	340	B	0.55	0.030	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Nickel	21	B	0.55	0.054	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Potassium	1100	B	28	1.7	mg/Kg	☼	09/04/13 12:00	09/15/13 19:13	1
Selenium	0.62		0.55	0.20	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Sodium	880	B	55	7.4	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Thallium	0.72		0.55	0.23	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Vanadium	13	B	0.28	0.041	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1
Zinc	55	B	1.1	0.22	mg/Kg	☼	09/04/13 12:00	09/15/13 02:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/13 08:30	09/18/13 21:50	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 21:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B02 DUP

Lab Sample ID: 500-62293-34

Date Collected: 09/03/13 15:05

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 21:50	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 21:50	1
Manganese	5.5		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 21:50	1
Nickel	0.018	J	0.025	0.010	mg/L		09/18/13 08:30	09/18/13 21:50	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2		0.50	0.010	mg/L		09/05/13 10:30	09/14/13 15:31	1
Beryllium	0.0060		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 15:31	1
Boron	1.6		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 15:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/05/13 10:30	09/15/13 22:10	1
Chromium	0.12		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:31	1
Cobalt	0.064		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 15:31	1
Iron	140		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 15:31	1
Lead	0.12		0.0075	0.0050	mg/L		09/05/13 10:30	09/15/13 22:10	1
Manganese	1.8		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:31	1
Nickel	0.16		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:31	1
Selenium	<0.050		0.050	0.010	mg/L		09/05/13 10:30	09/14/13 15:31	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 15:31	1
Zinc	1.1		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 15:31	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/13 08:30	09/19/13 12:05	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 14:18	1
Thallium	0.0034		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 14:18	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J	0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 12:00	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0080	mg/Kg	☼	09/05/13 14:30	09/06/13 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.27		0.200	0.200	SU			09/12/13 21:22	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B03

Lab Sample ID: 500-62293-35

Date Collected: 09/03/13 14:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.018		0.0045	0.0020	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00060	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00060	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Styrene	<0.0045		0.0045	0.00060	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Toluene	<0.0045		0.0045	0.00064	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	09/03/13 14:50	09/05/13 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	09/03/13 14:50	09/05/13 18:28	1
Dibromofluoromethane	100		75 - 120	09/03/13 14:50	09/05/13 18:28	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	09/03/13 14:50	09/05/13 18:28	1
Toluene-d8 (Surr)	108		75 - 122	09/03/13 14:50	09/05/13 18:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B03

Lab Sample ID: 500-62293-35

Date Collected: 09/03/13 14:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Naphthalene	0.010	J	0.038	0.0074	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Pentachlorophenol	<0.78	*	0.78	0.20	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Phenanthrene	0.058		0.038	0.016	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Anthracene	0.018	J	0.038	0.0091	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Fluoranthene	0.069		0.038	0.016	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Pyrene	0.077		0.038	0.014	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Benzo[a]anthracene	0.097		0.038	0.0081	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B03

Lab Sample ID: 500-62293-35

Date Collected: 09/03/13 14:50

Matrix: Solid

Date Received: 09/04/13 06:30

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.13		0.038	0.0087	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Benzo[b]fluoranthene	0.12		0.038	0.0075	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Benzo[k]fluoranthene	0.041		0.038	0.0092	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Benzo[a]pyrene	0.13		0.038	0.0070	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Indeno[1,2,3-cd]pyrene	0.083		0.038	0.013	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Dibenz(a,h)anthracene	0.077		0.038	0.011	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Benzo[g,h,i]perylene	0.12		0.038	0.013	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	09/05/13 07:32	09/05/13 23:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	45		25 - 110				09/05/13 07:32	09/05/13 23:52	1
Phenol-d5	48		31 - 110				09/05/13 07:32	09/05/13 23:52	1
Nitrobenzene-d5	46		25 - 115				09/05/13 07:32	09/05/13 23:52	1
2-Fluorobiphenyl	60		25 - 119				09/05/13 07:32	09/05/13 23:52	1
2,4,6-Tribromophenol	54		35 - 137				09/05/13 07:32	09/05/13 23:52	1
Terphenyl-d14	63		36 - 134				09/05/13 07:32	09/05/13 23:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9200	B	11	1.0	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Arsenic	7.3		0.55	0.11	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Barium	50	B	0.55	0.059	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Beryllium	0.67		0.22	0.019	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Boron	9.0		2.8	0.12	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Cadmium	0.37	B	0.11	0.014	mg/Kg	☼	09/04/13 12:00	09/15/13 19:18	1
Calcium	36000	B	11	3.0	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Chromium	15		0.55	0.064	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Cobalt	7.6	B	0.28	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Copper	24		0.55	0.049	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Iron	17000	B	11	4.5	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Lead	59		0.28	0.082	mg/Kg	☼	09/04/13 12:00	09/15/13 19:18	1
Magnesium	19000	B	5.5	1.1	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Manganese	340	B	0.55	0.030	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Nickel	21	B	0.55	0.054	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Potassium	1400	B	28	1.7	mg/Kg	☼	09/04/13 12:00	09/15/13 19:18	1
Selenium	0.75		0.55	0.20	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Silver	0.052	J B	0.28	0.020	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Sodium	1400	B	55	7.4	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Thallium	0.59		0.55	0.23	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Vanadium	20	B	0.28	0.041	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1
Zinc	62	B	1.1	0.22	mg/Kg	☼	09/04/13 12:00	09/15/13 03:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/13 08:30	09/18/13 22:11	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 22:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Client Sample ID: 846D-74-B03

Lab Sample ID: 500-62293-35

Date Collected: 09/03/13 14:50

Matrix: Solid

Date Received: 09/04/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/18/13 08:30	09/18/13 22:11	1
Lead	0.010		0.0075	0.0050	mg/L		09/18/13 08:30	09/18/13 22:11	1
Manganese	6.1		0.025	0.010	mg/L		09/18/13 08:30	09/18/13 22:11	1
Nickel	0.018	J	0.025	0.010	mg/L		09/18/13 08:30	09/18/13 22:11	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.4		0.50	0.010	mg/L		09/05/13 10:30	09/14/13 15:37	1
Beryllium	0.0082		0.0040	0.0040	mg/L		09/05/13 10:30	09/14/13 15:37	1
Boron	1.6		0.10	0.050	mg/L		09/05/13 10:30	09/14/13 15:37	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		09/05/13 10:30	09/15/13 22:14	1
Chromium	0.17		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:37	1
Cobalt	0.085		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 15:37	1
Iron	210		0.20	0.20	mg/L		09/05/13 10:30	09/14/13 15:37	1
Lead	0.24		0.0075	0.0050	mg/L		09/05/13 10:30	09/15/13 22:14	1
Manganese	2.4		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:37	1
Nickel	0.22		0.025	0.010	mg/L		09/05/13 10:30	09/14/13 15:37	1
Selenium	0.012	J	0.050	0.010	mg/L		09/05/13 10:30	09/14/13 15:37	1
Silver	<0.025		0.025	0.0050	mg/L		09/05/13 10:30	09/14/13 15:37	1
Zinc	1.2		0.10	0.020	mg/L		09/05/13 10:30	09/14/13 15:37	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/13 08:30	09/19/13 12:06	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/05/13 10:30	09/06/13 14:21	1
Thallium	0.0032		0.0020	0.0020	mg/L		09/05/13 10:30	09/06/13 14:21	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00036		0.00020	0.000020	mg/L		09/05/13 15:00	09/06/13 12:02	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0089	mg/Kg	☼	09/05/13 14:30	09/06/13 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.00		0.200	0.200	SU			09/12/13 21:22	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62293-5

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com	Project Name: <u>US6/IL7 Wild & Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: _____ of _____ Lab Job No.: <u>500-62293</u> Sample Temp: <u>34373835</u> Matrix Key: _____																																																																																
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES																																																																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> </tr> </thead> <tbody> <tr> <td>32</td> <td>846D-74-B01</td> <td>9/3/13</td> <td>1515</td> <td>S</td> </tr> <tr> <td>33</td> <td>846D-74-B02</td> <td>9/3/13</td> <td>1500</td> <td>S</td> </tr> <tr> <td>34</td> <td>846D-74-B02 DUP</td> <td>9/3/13</td> <td>1505</td> <td>S</td> </tr> <tr> <td>35</td> <td>846D-74-B03</td> <td>9/3/13</td> <td>1450</td> <td>S</td> </tr> </tbody> </table>	Lab ID	Sample ID	Sample Date	Sample Time	Matrix	32	846D-74-B01	9/3/13	1515	S	33	846D-74-B02	9/3/13	1500	S	34	846D-74-B02 DUP	9/3/13	1505	S	35	846D-74-B03	9/3/13	1450	S	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>VOCs</th> <th>SVOCs</th> <th>BTEX & MTBE</th> <th>PNAS</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> </tbody> </table>	VOCs	SVOCs	BTEX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP** TCLP Metals	pH	% Solids	Waste Characterization	X	X					X	X	X	X		X	X					X	X	X	X		X	X					X	X	X	X		X	X					X	X	X	X		Comments W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix																																																																															
32	846D-74-B01	9/3/13	1515	S																																																																															
33	846D-74-B02	9/3/13	1500	S																																																																															
34	846D-74-B02 DUP	9/3/13	1505	S																																																																															
35	846D-74-B03	9/3/13	1450	S																																																																															
VOCs	SVOCs	BTEX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP** TCLP Metals	pH	% Solids	Waste Characterization																																																																									
X	X					X	X	X	X																																																																										
X	X					X	X	X	X																																																																										
X	X					X	X	X	X																																																																										
X	X					X	X	X	X																																																																										
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>																																																																																	
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>																																																																																	
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>																																																																																	
Date/Time: <u>9/13/13 1620</u>		Date/Time: <u>9/13/13 1620</u>																																																																																	
Date/Time: <u>9/13/13 1700</u>		Date/Time: <u>9/13/13 0630</u>																																																																																	
Date/Time: _____		Date/Time: _____																																																																																	



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
13463 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59951 Longitude: -87.94676
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59951 Longitude: -87.94676

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-75-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-75. SEE FIGURE 13 AND TABLE 3bh OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-61512-1 AND 500-62485-4

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

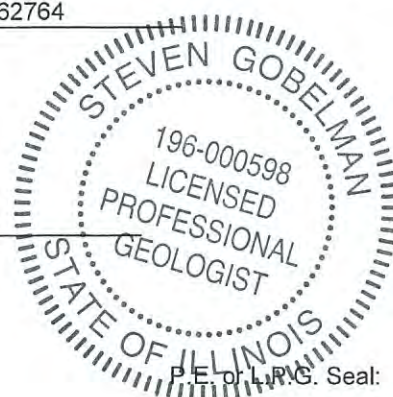
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

**ISGS Site 846D-75
B&E Cartage**

Sample ID	846D-75-B01	846D-75-B02						
Sample Depth (ft)	0-2	0-2						
Sample Date	9/5/2013	8/20/2013						
PID	0	0						
Sample pH	8.83	8.69						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								
			¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non- Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62485-4
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/26/2013 9:59:52 AM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-4

Client Sample ID: 846D-75-B01

Lab Sample ID: 500-62485-16

Date Collected: 09/05/13 09:00

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 87.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Benzene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Chloroform	<0.0041		0.0041	0.00048	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Chloromethane	<0.0041		0.0041	0.00087	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
1,1-Dichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
1,2-Dichloropropane	<0.0041		0.0041	0.00063	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Vinyl chloride	<0.0041		0.0041	0.00087	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1
Xylenes, Total	<0.0083		0.0083	0.00037	mg/Kg	☼	09/05/13 09:00	09/10/13 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	09/05/13 09:00	09/10/13 14:00	1
Dibromofluoromethane	99		75 - 120	09/05/13 09:00	09/10/13 14:00	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	09/05/13 09:00	09/10/13 14:00	1
Toluene-d8 (Surr)	96		75 - 122	09/05/13 09:00	09/10/13 14:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-4

Client Sample ID: 846D-75-B01

Lab Sample ID: 500-62485-16

Date Collected: 09/05/13 09:00

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
2,4-Dimethylphenol	<0.36	*	0.36	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Hexachlorocyclopentadiene	<0.72	*	0.72	0.17	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Acenaphthylene	<0.036		0.036	0.0082	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
4-Nitrophenol	<0.72	*	0.72	0.19	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Fluorene	<0.036		0.036	0.0081	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
4-Nitroaniline	<0.36		0.36	0.073	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Hexachlorobenzene	<0.072		0.072	0.0071	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Pentachlorophenol	<0.72	*	0.72	0.18	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Anthracene	<0.036		0.036	0.0084	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Benzo[a]anthracene	<0.036		0.036	0.0075	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-4

Client Sample ID: 846D-75-B01

Lab Sample ID: 500-62485-16

Date Collected: 09/05/13 09:00

Matrix: Solid

Date Received: 09/06/13 06:15

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0081	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Benzo[k]fluoranthene	<0.036		0.036	0.0085	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Benzo[a]pyrene	<0.036		0.036	0.0065	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	09/16/13 07:41	09/19/13 05:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		25 - 110	09/16/13 07:41	09/19/13 05:30	1
Phenol-d5	74		31 - 110	09/16/13 07:41	09/19/13 05:30	1
Nitrobenzene-d5	59		25 - 115	09/16/13 07:41	09/19/13 05:30	1
2-Fluorobiphenyl	69		25 - 119	09/16/13 07:41	09/19/13 05:30	1
2,4,6-Tribromophenol	64		35 - 137	09/16/13 07:41	09/19/13 05:30	1
Terphenyl-d14	128		36 - 134	09/16/13 07:41	09/19/13 05:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4400		11	1.0	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Arsenic	6.0		0.55	0.11	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Barium	18		0.55	0.059	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Beryllium	0.35		0.22	0.019	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Boron	4.9		2.7	0.12	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Cadmium	0.35		0.11	0.014	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Calcium	49000	B	11	3.0	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Chromium	8.6		0.55	0.064	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Cobalt	7.4		0.27	0.020	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Copper	16	B	0.55	0.049	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Iron	13000		11	4.5	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Lead	10	B	0.27	0.082	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Magnesium	20000	B	5.5	1.1	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Manganese	300	B	0.55	0.030	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Nickel	18	B	0.55	0.054	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Potassium	1000		27	1.7	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Selenium	0.44	J	0.55	0.19	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Silver	0.033	J	0.27	0.020	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Sodium	620	B	55	7.3	mg/Kg	☼	09/09/13 10:30	09/18/13 22:17	1
Thallium	0.67		0.55	0.23	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Vanadium	10		0.27	0.041	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1
Zinc	41	B	1.1	0.22	mg/Kg	☼	09/09/13 10:30	09/17/13 19:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.20		0.20	0.20	mg/L		09/19/13 09:00	09/20/13 04:40	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/19/13 09:00	09/20/13 04:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-4

Client Sample ID: 846D-75-B01

Lab Sample ID: 500-62485-16

Date Collected: 09/05/13 09:00

Matrix: Solid

Date Received: 09/06/13 06:15

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3		0.025	0.010	mg/L		09/19/13 09:00	09/20/13 04:40	1
Nickel	0.011	J	0.025	0.010	mg/L		09/19/13 09:00	09/20/13 04:40	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.84	B	0.50	0.010	mg/L		09/09/13 08:15	09/12/13 18:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/09/13 08:15	09/12/13 18:50	1
Boron	1.2	B	0.10	0.050	mg/L		09/09/13 08:15	09/12/13 18:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/09/13 08:15	09/12/13 18:50	1
Chromium	0.071		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:50	1
Cobalt	0.036		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:50	1
Iron	83		0.20	0.20	mg/L		09/09/13 08:15	09/12/13 18:50	1
Lead	0.062		0.0075	0.0050	mg/L		09/09/13 08:15	09/12/13 18:50	1
Manganese	0.67		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:50	1
Nickel	0.11		0.025	0.010	mg/L		09/09/13 08:15	09/12/13 18:50	1
Selenium	<0.050		0.050	0.010	mg/L		09/09/13 08:15	09/12/13 18:50	1
Silver	<0.025		0.025	0.0050	mg/L		09/09/13 08:15	09/12/13 18:50	1
Zinc	0.97	B	0.10	0.020	mg/L		09/09/13 08:15	09/12/13 18:50	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/19/13 09:00	09/19/13 18:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		09/09/13 08:15	09/11/13 17:49	1
Thallium	0.0026		0.0020	0.0020	mg/L		09/09/13 08:15	09/11/13 17:49	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000085	J	0.00020	0.000020	mg/L		09/09/13 14:45	09/10/13 10:51	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.017	0.0082	mg/Kg	☼	09/09/13 14:15	09/10/13 10:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.83		0.200	0.200	SU			09/16/13 19:20	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-62485-4

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-61512-1

Client Project/Site: IDOT - Gougar Road - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/12/2013 1:49:55 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-1

Client Sample ID: 846D-75-B02

Lab Sample ID: 500-61512-1

Date Collected: 08/20/13 08:40

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 87.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0095		0.0041	0.0018	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Chloromethane	<0.0041		0.0041	0.00087	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
1,1,1-Dichloroethane	<0.0041		0.0041	0.00067	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
1,2-Dichloropropane	<0.0041		0.0041	0.00063	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Vinyl chloride	<0.0041		0.0041	0.00087	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	08/20/13 08:40	08/27/13 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	08/20/13 08:40	08/27/13 16:52	1
Dibromofluoromethane	104		75 - 120	08/20/13 08:40	08/27/13 16:52	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/20/13 08:40	08/27/13 16:52	1
Toluene-d8 (Surr)	107		75 - 122	08/20/13 08:40	08/27/13 16:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-1

Client Sample ID: 846D-75-B02

Lab Sample ID: 500-61512-1

Date Collected: 08/20/13 08:40

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Hexachlorobenzene	<0.075		0.075	0.0074	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-1

Client Sample ID: 846D-75-B02

Lab Sample ID: 500-61512-1

Date Collected: 08/20/13 08:40

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.037	0.0084	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Benzo[b]fluoranthene	0.012	J	0.037	0.0073	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Benzo[k]fluoranthene	0.013	J	0.037	0.0089	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/01/13 22:08	09/03/13 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		25 - 110				09/01/13 22:08	09/03/13 17:23	1
Phenol-d5	43		31 - 110				09/01/13 22:08	09/03/13 17:23	1
Nitrobenzene-d5	45		25 - 115				09/01/13 22:08	09/03/13 17:23	1
2-Fluorobiphenyl	52		25 - 119				09/01/13 22:08	09/03/13 17:23	1
2,4,6-Tribromophenol	55		35 - 137				09/01/13 22:08	09/03/13 17:23	1
Terphenyl-d14	68		36 - 134				09/01/13 22:08	09/03/13 17:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Arsenic	7.0		0.52	0.10	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Barium	43		0.52	0.055	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Beryllium	0.57		0.21	0.018	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Boron	9.4		2.6	0.11	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Cadmium	0.46		0.10	0.013	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Calcium	72000	B	100	28	mg/Kg	☼	08/21/13 16:00	09/10/13 14:55	10
Chromium	14		0.52	0.060	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Cobalt	7.2	B	0.26	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Copper	22		0.52	0.046	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Iron	18000		10	4.3	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Lead	11	B	0.26	0.077	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Magnesium	27000	B	5.2	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Manganese	290	B	0.52	0.028	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Nickel	20	B	0.52	0.051	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Potassium	2100		26	1.6	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Selenium	0.54		0.52	0.18	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Sodium	830	B	52	6.9	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Thallium	0.40	J	0.52	0.22	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Vanadium	17		0.26	0.038	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Zinc	59	B	1.0	0.21	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1
Aluminum	8200		10	0.95	mg/Kg	☼	08/21/13 16:00	09/10/13 03:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/13 09:30	09/12/13 06:50	1
Chromium	<0.025		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 06:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-1

Client Sample ID: 846D-75-B02

Lab Sample ID: 500-61512-1

Date Collected: 08/20/13 08:40

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 06:50	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 06:50	1
Manganese	3.0		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 06:50	1
Nickel	0.039		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 06:50	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 17:30	1
Beryllium	0.0074		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 17:30	1
Boron	0.22		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 17:30	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 17:30	1
Chromium	0.16		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 17:30	1
Cobalt	0.058		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 17:30	1
Iron	210		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 17:30	1
Lead	0.11		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 17:30	1
Manganese	0.74		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 17:30	1
Nickel	0.22		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 17:30	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 17:30	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 17:30	1
Zinc	0.68		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 17:30	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 09:30	09/11/13 16:41	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 19:20	1
Thallium	0.0047		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 19:20	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00041		0.00020	0.000020	mg/L		08/26/13 14:30	08/27/13 11:10	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0083	mg/Kg	☼	08/23/13 13:30	08/26/13 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.69		0.200	0.200	SU			09/03/13 11:31	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

500-61512 COC

COC No.: 1 of 1
 Lab Job No.: 500-6/5/12
 Sample Temp: 36.39

Project Name: US6/IL7Woods Cook Co.
 Project No.: IDOT 2013-023
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Sampler: KM, MN

Lab: **Test America - Chicago**
 Address: **2417 Bond Street**
University Park, IL 60484
 Phone: **708-534-5200**
 Contact: **Dick Wright**
 email: **richard.wright@testamericainc.com**

Client Contact
 Andrews Engineering, Inc.
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Matrix Key:
 W: Water
 S: Soil
 SL: Sludge
 S: Sediment
 L: Leachate
 DW: Drinking Water
 OL: Oil
 O: Other

ANALYSES

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
1	8400-75-Box	8/20/13	8:40	S	X	X					X	X	X	X		0-21
	8400-75-Box2	8/20/13	8:40	S	X	X					X	X	X	X		

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Relinquished by: [Signature] Date/Time: 8/20/13 3:35
 Relinquished by: [Signature] Date/Time: 8-20-13/16:20
 Relinquished by: [Signature] Date/Time: 8/20/13 06:30



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13445 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59952 Longitude: -87.94616
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 1970505081 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59952 Longitude: -87.94616

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-76-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-76. SEE FIGURES 13 & 14, AND TABLE 3bi OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61512-2

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

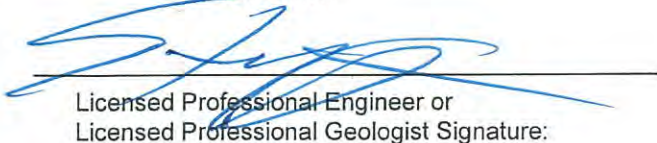
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

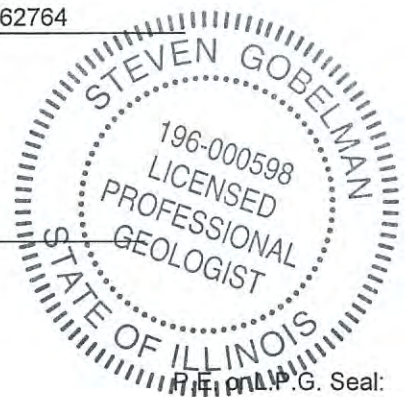
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-76

Aqua Pools

Sample ID	846D-76-B01									
Sample Depth (ft)	0-2									
Sample Date	8/20/2013									
PID	0									
Sample pH	8.6									
Matrix	Soil									
Semivolatile Organic Compounds (mg/kg)										
Benzo(a)pyrene	J 0.12	1.2	0.09	0.09	0.09	0.98	1.3	2.1	NA	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-61512-2

Client Project/Site: IDOT - Gougar Road - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/12/2013 1:50:23 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-2

Client Sample ID: 846D-76-B01

Lab Sample ID: 500-61512-2

Date Collected: 08/20/13 08:45

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 84.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0057		0.0045	0.0020	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00060	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00060	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Styrene	<0.0045		0.0045	0.00060	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Toluene	<0.0045		0.0045	0.00064	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	08/20/13 08:45	08/27/13 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/20/13 08:45	08/27/13 17:16	1
Dibromofluoromethane	105		75 - 120	08/20/13 08:45	08/27/13 17:16	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	08/20/13 08:45	08/27/13 17:16	1
Toluene-d8 (Surr)	105		75 - 122	08/20/13 08:45	08/27/13 17:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.95		0.95	0.30	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Bis(2-chloroethyl)ether	<0.95		0.95	0.28	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
1,3-Dichlorobenzene	<0.95		0.95	0.20	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
1,4-Dichlorobenzene	<0.95		0.95	0.20	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-2

Client Sample ID: 846D-76-B01

Lab Sample ID: 500-61512-2

Date Collected: 08/20/13 08:45

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 84.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.95		0.95	0.21	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
2-Methylphenol	<0.95		0.95	0.25	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
2,2'-oxybis[1-chloropropane]	<0.95		0.95	0.21	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
N-Nitrosodi-n-propylamine	<0.95		0.95	0.24	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Hexachloroethane	<0.95		0.95	0.20	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
2-Chlorophenol	<0.95		0.95	0.27	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Nitrobenzene	<0.19		0.19	0.059	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Bis(2-chloroethoxy)methane	<0.95		0.95	0.21	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
1,2,4-Trichlorobenzene	<0.95		0.95	0.21	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Isophorone	<0.95		0.95	0.21	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
2,4-Dimethylphenol	<1.9		1.9	0.59	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Hexachlorobutadiene	<0.95		0.95	0.25	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Naphthalene	<0.19		0.19	0.036	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
2,4-Dichlorophenol	<1.9		1.9	0.58	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
4-Chloroaniline	<3.8		3.8	0.58	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
2,4,6-Trichlorophenol	<1.9		1.9	0.24	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
2,4,5-Trichlorophenol	<1.9		1.9	0.54	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Hexachlorocyclopentadiene	<3.8		3.8	0.88	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
2-Methylnaphthalene	<0.95		0.95	0.25	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
2-Nitroaniline	<0.95		0.95	0.34	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
2-Chloronaphthalene	<0.95		0.95	0.21	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
4-Chloro-3-methylphenol	<1.9		1.9	0.91	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
2,6-Dinitrotoluene	<0.95		0.95	0.22	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
2-Nitrophenol	<1.9		1.9	0.30	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
3-Nitroaniline	<1.9		1.9	0.36	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Dimethyl phthalate	<0.95		0.95	0.24	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
2,4-Dinitrophenol	<3.8		3.8	0.97	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Acenaphthylene	<0.19		0.19	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
2,4-Dinitrotoluene	<0.95		0.95	0.29	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Acenaphthene	<0.19		0.19	0.057	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Dibenzofuran	<0.95		0.95	0.23	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
4-Nitrophenol	<3.8		3.8	1.0	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Fluorene	<0.19		0.19	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
4-Nitroaniline	<1.9		1.9	0.39	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
4-Bromophenyl phenyl ether	<0.95		0.95	0.21	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Hexachlorobenzene	<0.38		0.38	0.037	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Diethyl phthalate	<0.95		0.95	0.32	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
4-Chlorophenyl phenyl ether	<0.95		0.95	0.30	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Pentachlorophenol	<3.8		3.8	0.96	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
N-Nitrosodiphenylamine	<0.95		0.95	0.26	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
4,6-Dinitro-2-methylphenol	<1.9		1.9	0.46	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Phenanthrene	<0.19		0.19	0.079	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Anthracene	<0.19		0.19	0.044	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Carbazole	<0.95		0.95	0.27	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Di-n-butyl phthalate	<0.95		0.95	0.24	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Fluoranthene	0.20		0.19	0.077	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Pyrene	0.18 J		0.19	0.068	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Butyl benzyl phthalate	<0.95		0.95	0.24	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Benzo[a]anthracene	0.099 J		0.19	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-2

Client Sample ID: 846D-76-B01

Lab Sample ID: 500-61512-2

Date Collected: 08/20/13 08:45

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 84.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.14	J	0.19	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
3,3'-Dichlorobenzidine	<0.95		0.95	0.16	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Bis(2-ethylhexyl) phthalate	<0.95		0.95	0.25	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Di-n-octyl phthalate	<0.95		0.95	0.38	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Benzo[b]fluoranthene	0.18	J	0.19	0.037	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Benzo[k]fluoranthene	0.085	J	0.19	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Benzo[a]pyrene	0.12	J	0.19	0.034	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Indeno[1,2,3-cd]pyrene	<0.19		0.19	0.064	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Dibenz(a,h)anthracene	<0.19		0.19	0.053	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Benzo[g,h,i]perylene	<0.19		0.19	0.064	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
3 & 4 Methylphenol	<0.95		0.95	0.36	mg/Kg	☼	09/01/13 22:08	09/03/13 17:39	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		25 - 110				09/01/13 22:08	09/03/13 17:39	5
Phenol-d5	45		31 - 110				09/01/13 22:08	09/03/13 17:39	5
Nitrobenzene-d5	42		25 - 115				09/01/13 22:08	09/03/13 17:39	5
2-Fluorobiphenyl	57		25 - 119				09/01/13 22:08	09/03/13 17:39	5
2,4,6-Tribromophenol	42		35 - 137				09/01/13 22:08	09/03/13 17:39	5
Terphenyl-d14	60		36 - 134				09/01/13 22:08	09/03/13 17:39	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Arsenic	11		0.59	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Barium	86		0.59	0.063	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Beryllium	0.85		0.24	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Boron	6.0		3.0	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Cadmium	0.36		0.12	0.015	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Calcium	16000	B	12	3.2	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Chromium	19		0.59	0.069	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Cobalt	12	B	0.30	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Copper	25		0.59	0.053	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Iron	25000		12	4.9	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Lead	25	B	0.30	0.088	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Magnesium	11000	B	5.9	1.2	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Manganese	560	B	0.59	0.032	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Nickel	28	B	0.59	0.058	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Potassium	1700		30	1.8	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Selenium	1.3		0.59	0.21	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Sodium	390	B	59	7.9	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Thallium	0.47	J	0.59	0.25	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Vanadium	26		0.30	0.044	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Zinc	63	B	1.2	0.24	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1
Aluminum	14000		12	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 03:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 07:17	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 07:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-2

Client Sample ID: 846D-76-B01

Lab Sample ID: 500-61512-2

Date Collected: 08/20/13 08:45

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.72	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 17:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 17:35	1
Boron	0.83		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 17:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 17:35	1
Chromium	0.010	J	0.025	0.010	mg/L		08/26/13 10:00	09/08/13 17:35	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 17:35	1
Iron	6.1		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 17:35	1
Lead	0.0093		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 17:35	1
Manganese	0.058		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 17:35	1
Nickel	<0.025		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 17:35	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 17:35	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 17:35	1
Zinc	0.43		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 17:35	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 19:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 19:24	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/26/13 14:30	08/27/13 11:12	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.020	0.0092	mg/Kg	☆	08/23/13 13:30	08/26/13 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.60		0.200	0.200	SU			09/03/13 11:34	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13425 and 13443 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59954 Longitude: -87.94528
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59954 Longitude: -87.94528

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-77-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-77. SEE FIGURE 14 AND TABLE 3bj OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61512-3

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

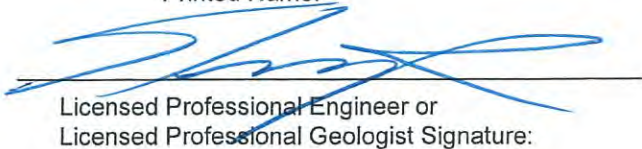
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14

Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-77

Commercial Businesses

Sample ID	846D-77-B01							
Sample Depth (ft)	0-2							
Sample Date	8/20/2013							
PID	0							
Sample pH	7.93							
Matrix	Soil							
No Contaminants of Concern Noted.								
		¹ Most Stringent MAC	² Outside a Populated Area	³ Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Metropolitan Statistical Area	⁶ Class I Soil TCLP/SPLP Comparisons	Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-61512-3

Client Project/Site: IDOT - Gougar Road - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/12/2013 1:51:05 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-3

Client Sample ID: 846D-77-B01

Lab Sample ID: 500-61512-3

Date Collected: 08/20/13 09:00

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 82.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	08/20/13 09:00	08/27/13 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	08/20/13 09:00	08/27/13 17:40	1
Dibromofluoromethane	105		75 - 120	08/20/13 09:00	08/27/13 17:40	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	08/20/13 09:00	08/27/13 17:40	1
Toluene-d8 (Surr)	104		75 - 122	08/20/13 09:00	08/27/13 17:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-3

Client Sample ID: 846D-77-B01

Lab Sample ID: 500-61512-3

Date Collected: 08/20/13 09:00

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-3

Client Sample ID: 846D-77-B01

Lab Sample ID: 500-61512-3

Date Collected: 08/20/13 09:00

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	09/01/13 22:08	09/03/13 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		25 - 110	09/01/13 22:08	09/03/13 17:56	1
Phenol-d5	42		31 - 110	09/01/13 22:08	09/03/13 17:56	1
Nitrobenzene-d5	46		25 - 115	09/01/13 22:08	09/03/13 17:56	1
2-Fluorobiphenyl	53		25 - 119	09/01/13 22:08	09/03/13 17:56	1
2,4,6-Tribromophenol	60		35 - 137	09/01/13 22:08	09/03/13 17:56	1
Terphenyl-d14	73		36 - 134	09/01/13 22:08	09/03/13 17:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Arsenic	7.9		0.57	0.11	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Barium	65		0.57	0.061	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Beryllium	0.87		0.23	0.020	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Boron	5.0		2.9	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Cadmium	0.16		0.11	0.015	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Calcium	2100	B	11	3.1	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Chromium	21		0.57	0.066	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Cobalt	11	B	0.29	0.020	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Copper	27		0.57	0.051	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Iron	30000		11	4.7	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Lead	14	B	0.29	0.085	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Magnesium	4100	B	5.7	1.2	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Manganese	240	B	0.57	0.031	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Nickel	31	B	0.57	0.056	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Potassium	1700		29	1.7	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Selenium	1.5		0.57	0.20	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Sodium	1400	B	57	7.7	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Thallium	0.87		0.57	0.24	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Vanadium	26		0.29	0.042	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Zinc	58	B	1.1	0.23	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1
Aluminum	14000		11	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 03:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/13 09:30	09/12/13 07:22	1
Chromium	<0.025		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 07:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-3

Client Sample ID: 846D-77-B01

Lab Sample ID: 500-61512-3

Date Collected: 08/20/13 09:00

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.44		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 07:22	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 07:22	1
Manganese	0.55		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 07:22	1
Nickel	0.011	J	0.025	0.010	mg/L		09/11/13 09:30	09/12/13 07:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 17:46	1
Beryllium	0.0068		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 17:46	1
Boron	0.71		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 17:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 17:46	1
Chromium	0.17		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 17:46	1
Cobalt	0.031		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 17:46	1
Iron	160		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 17:46	1
Lead	0.062		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 17:46	1
Manganese	0.71		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 17:46	1
Nickel	0.15		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 17:46	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 17:46	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 17:46	1
Zinc	0.76		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 17:46	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 09:30	09/11/13 16:47	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 19:27	1
Thallium	0.0030		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 19:27	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00024		0.00020	0.000020	mg/L		08/26/13 14:30	08/27/13 11:17	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.018	0.0084	mg/Kg	☼	08/23/13 13:30	08/26/13 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.93		0.200	0.200	SU			09/03/13 11:36	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13412 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59981 Longitude: -87.94534
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1978075002 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)Latitude: 41.59981 Longitude: -87.94534Uncontaminated Site Certification**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-78-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-78. SEE FIGURE 14 AND TABLE 3bk OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61605-2

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist


I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-78

Total Flooring

Sample ID	846D-78-B01	846D-78-B02	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6	0-6						
Sample Date	8/21/2013	8/21/2013						
PID	0	0						
Sample pH	8.43	8.46						
Matrix	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61605-2
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/13/2013 10:35:09 AM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-2

Client Sample ID: 846D-78-B01

Lab Sample ID: 500-61605-5

Date Collected: 08/21/13 13:20

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 87.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0067		0.0052	0.0022	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Chlorobenzene	<0.0052		0.0052	0.00052	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Chloroform	<0.0052		0.0052	0.00059	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
1,2-Dichloropropane	<0.0052		0.0052	0.00078	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00085	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Toluene	<0.0052		0.0052	0.00072	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00070	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Vinyl acetate	<0.0052		0.0052	0.00081	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	08/21/13 13:20	08/27/13 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	08/21/13 13:20	08/27/13 01:39	1
Dibromofluoromethane	106		75 - 120	08/21/13 13:20	08/27/13 01:39	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/21/13 13:20	08/27/13 01:39	1
Toluene-d8 (Surr)	92		75 - 122	08/21/13 13:20	08/27/13 01:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-2

Client Sample ID: 846D-78-B01

Lab Sample ID: 500-61605-5

Date Collected: 08/21/13 13:20

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Pentachlorophenol	<0.74	*	0.74	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-2

Client Sample ID: 846D-78-B01

Lab Sample ID: 500-61605-5

Date Collected: 08/21/13 13:20

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	09/03/13 07:37	09/04/13 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		25 - 110				09/03/13 07:37	09/04/13 16:56	1
Phenol-d5	53		31 - 110				09/03/13 07:37	09/04/13 16:56	1
Nitrobenzene-d5	64		25 - 115				09/03/13 07:37	09/04/13 16:56	1
2-Fluorobiphenyl	71		25 - 119				09/03/13 07:37	09/04/13 16:56	1
2,4,6-Tribromophenol	96		35 - 137				09/03/13 07:37	09/04/13 16:56	1
Terphenyl-d14	71		36 - 134				09/03/13 07:37	09/04/13 16:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Arsenic	8.1		0.53	0.11	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Barium	58 B		0.53	0.057	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Beryllium	0.68		0.21	0.019	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Boron	8.1		2.7	0.11	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Cadmium	0.077 J B		0.11	0.014	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Calcium	49000 B		11	2.9	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Chromium	16		0.53	0.062	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Cobalt	8.1 B		0.27	0.019	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Copper	23		0.53	0.047	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Iron	20000		11	4.4	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Lead	12 B		0.27	0.080	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Magnesium	22000 B		5.3	1.1	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Manganese	320 B		0.53	0.029	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Nickel	23 B		0.53	0.052	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Potassium	1900 B		27	1.6	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Selenium	0.73		0.53	0.19	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Sodium	120 B		53	7.2	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Thallium	0.41 J		0.53	0.23	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Vanadium	21 B		0.27	0.040	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Zinc	47 B		1.1	0.22	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1
Aluminum	10000		11	0.98	mg/Kg	☼	08/22/13 16:00	09/12/13 05:34	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1 B		0.50	0.010	mg/L		08/28/13 10:00	09/09/13 22:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/09/13 22:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-2

Client Sample ID: 846D-78-B01

Lab Sample ID: 500-61605-5

Date Collected: 08/21/13 13:20

Matrix: Solid

Date Received: 08/22/13 06:30

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.8		0.10	0.050	mg/L		08/28/13 10:00	09/09/13 22:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/09/13 22:25	1
Chromium	<0.025		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:25	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 22:25	1
Iron	0.62		0.20	0.20	mg/L		08/28/13 10:00	09/09/13 22:25	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	09/09/13 22:25	1
Manganese	0.023	J	0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:25	1
Nickel	<0.025		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:25	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/09/13 22:25	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 22:25	1
Zinc	0.80		0.10	0.020	mg/L		08/28/13 10:00	09/09/13 22:25	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 19:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 19:10	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 11:29	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.018	0.0086	mg/Kg	☼	08/26/13 13:30	08/27/13 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.43		0.200	0.200	SU			09/03/13 12:27	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-2

Client Sample ID: 846D-78-B02

Lab Sample ID: 500-61605-6

Date Collected: 08/21/13 13:05

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0038		0.0038	0.0017	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Benzene	<0.0038		0.0038	0.00052	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Bromodichloromethane	<0.0038		0.0038	0.00066	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Bromoform	<0.0038		0.0038	0.00088	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Bromomethane	<0.0038		0.0038	0.0012	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Carbon disulfide	<0.0038		0.0038	0.00057	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Carbon tetrachloride	<0.0038		0.0038	0.00070	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Chlorobenzene	<0.0038		0.0038	0.00039	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Chloroethane	<0.0038		0.0038	0.0010	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Chloroform	<0.0038		0.0038	0.00044	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Chloromethane	<0.0038		0.0038	0.00080	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00054	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00050	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Dibromochloromethane	<0.0038		0.0038	0.00067	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
1,1-Dichloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
1,2-Dichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
1,1-Dichloroethene	<0.0038		0.0038	0.00062	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
1,2-Dichloropropane	<0.0038		0.0038	0.00058	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.00050	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Ethylbenzene	<0.0038		0.0038	0.00077	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
2-Hexanone	<0.0038		0.0038	0.0011	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Methylene Chloride	<0.0038		0.0038	0.0010	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0010	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00063	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Styrene	<0.0038		0.0038	0.00050	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
1,1,1,2-Tetrachloroethane	<0.0038		0.0038	0.00077	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Tetrachloroethene	<0.0038		0.0038	0.00058	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Toluene	<0.0038		0.0038	0.00054	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00053	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.00069	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00052	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Trichloroethene	<0.0038		0.0038	0.00063	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Vinyl acetate	<0.0038		0.0038	0.00060	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Vinyl chloride	<0.0038		0.0038	0.00080	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1
Xylenes, Total	<0.0077		0.0077	0.00035	mg/Kg	☼	08/21/13 13:05	08/27/13 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/21/13 13:05	08/27/13 02:02	1
Dibromofluoromethane	101		75 - 120	08/21/13 13:05	08/27/13 02:02	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/21/13 13:05	08/27/13 02:02	1
Toluene-d8 (Surr)	95		75 - 122	08/21/13 13:05	08/27/13 02:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-2

Client Sample ID: 846D-78-B02

Lab Sample ID: 500-61605-6

Date Collected: 08/21/13 13:05

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Hexachlorobenzene	<0.075		0.075	0.0074	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Pentachlorophenol	<0.75	*	0.75	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-2

Client Sample ID: 846D-78-B02

Lab Sample ID: 500-61605-6

Date Collected: 08/21/13 13:05

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/03/13 07:37	09/04/13 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		25 - 110	09/03/13 07:37	09/04/13 17:17	1
Phenol-d5	47		31 - 110	09/03/13 07:37	09/04/13 17:17	1
Nitrobenzene-d5	51		25 - 115	09/03/13 07:37	09/04/13 17:17	1
2-Fluorobiphenyl	58		25 - 119	09/03/13 07:37	09/04/13 17:17	1
2,4,6-Tribromophenol	75		35 - 137	09/03/13 07:37	09/04/13 17:17	1
Terphenyl-d14	60		36 - 134	09/03/13 07:37	09/04/13 17:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Arsenic	10		0.58	0.11	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Barium	40 B		0.58	0.062	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Beryllium	0.59		0.23	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Boron	11		2.9	0.12	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Cadmium	<0.12		0.12	0.015	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Calcium	31000 B		12	3.1	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Chromium	16		0.58	0.067	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Cobalt	11 B		0.29	0.021	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Copper	24		0.58	0.051	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Iron	22000		12	4.7	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Lead	13 B		0.29	0.086	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Magnesium	21000 B		5.8	1.2	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Manganese	480 B		0.58	0.031	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Nickel	30 B		0.58	0.057	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Potassium	2500 B		29	1.7	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Selenium	1.0		0.58	0.20	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Sodium	200 B		58	7.7	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Thallium	0.58		0.58	0.24	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Vanadium	17 B		0.29	0.043	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Zinc	58 B		1.2	0.23	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1
Aluminum	9000		12	1.1	mg/Kg	☼	08/22/13 16:00	09/12/13 05:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.22		0.20	0.20	mg/L		09/12/13 07:30	09/12/13 15:43	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/12/13 07:30	09/12/13 15:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-2

Client Sample ID: 846D-78-B02

Lab Sample ID: 500-61605-6

Date Collected: 08/21/13 13:05

Matrix: Solid

Date Received: 08/22/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.84	B	0.50	0.010	mg/L		08/28/13 10:00	09/09/13 22:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/09/13 22:46	1
Boron	1.4		0.10	0.050	mg/L		08/28/13 10:00	09/09/13 22:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/09/13 22:46	1
Chromium	0.024	J	0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:46	1
Cobalt	0.010	J	0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 22:46	1
Iron	24		0.20	0.20	mg/L		08/28/13 10:00	09/09/13 22:46	1
Lead	0.013		0.0075	0.0050	mg/L		08/28/13 10:00	09/09/13 22:46	1
Manganese	0.13		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:46	1
Nickel	0.028		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:46	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/09/13 22:46	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 22:46	1
Zinc	0.66		0.10	0.020	mg/L		08/28/13 10:00	09/09/13 22:46	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 19:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 19:21	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000028	J	0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 11:31	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0090	mg/Kg	☆	08/26/13 13:30	08/27/13 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		0.200	0.200	SU			09/03/13 12:29	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
13405 and 13435 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59956 Longitude: -87.94474
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)Latitude: 41.59956 Longitude: -87.94474Uncontaminated Site Certification**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-79-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-79. SEE FIGURE 14 AND TABLE 3bI OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61512-4

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246

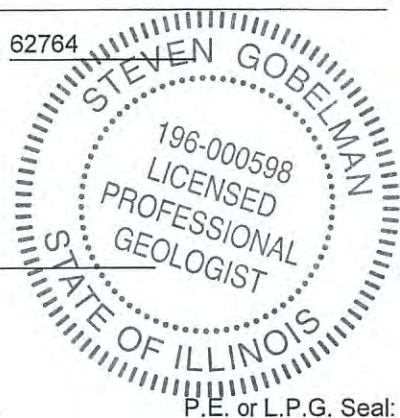
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-79

Residences

Sample ID	846D-79-B01								
Sample Depth (ft)	0-3								
Sample Date	8/20/2013								
PID	0								
Sample pH	8.56								
Matrix	Soil								
Semivolatile Organic Compounds (mg/kg)									
Benzo(a)pyrene	0.44	1.2	0.09	0.09	0.98	1.3	2.1	NA	NA
Dibenzo(a,h)anthracene	J0.12	1.2	0.09	0.09	0.15	0.2	0.42	NA	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61512-4
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/12/2013 2:15:38 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-4

Client Sample ID: 846D-79-B01

Lab Sample ID: 500-61512-4

Date Collected: 08/20/13 09:10

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 81.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0092		0.0047	0.0020	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00065	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	08/20/13 09:10	08/27/13 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	08/20/13 09:10	08/27/13 18:03	1
Dibromofluoromethane	101		75 - 120	08/20/13 09:10	08/27/13 18:03	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/20/13 09:10	08/27/13 18:03	1
Toluene-d8 (Surr)	106		75 - 122	08/20/13 09:10	08/27/13 18:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<1.0		1.0	0.31	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Bis(2-chloroethyl)ether	<1.0		1.0	0.29	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
1,3-Dichlorobenzene	<1.0		1.0	0.21	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
1,4-Dichlorobenzene	<1.0		1.0	0.21	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-4

Client Sample ID: 846D-79-B01

Lab Sample ID: 500-61512-4

Date Collected: 08/20/13 09:10

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.22	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
2-Methylphenol	<1.0		1.0	0.26	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
2,2'-oxybis[1-chloropropane]	<1.0		1.0	0.22	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
N-Nitrosodi-n-propylamine	<1.0		1.0	0.25	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Hexachloroethane	<1.0		1.0	0.21	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
2-Chlorophenol	<1.0		1.0	0.28	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Nitrobenzene	<0.20		0.20	0.061	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Bis(2-chloroethoxy)methane	<1.0		1.0	0.22	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
1,2,4-Trichlorobenzene	<1.0		1.0	0.22	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Isophorone	<1.0		1.0	0.22	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
2,4-Dimethylphenol	<2.0		2.0	0.62	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Hexachlorobutadiene	<1.0		1.0	0.26	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Naphthalene	<0.20		0.20	0.038	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
2,4-Dichlorophenol	<2.0		2.0	0.60	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
4-Chloroaniline	<4.0		4.0	0.60	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
2,4,6-Trichlorophenol	<2.0		2.0	0.25	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
2,4,5-Trichlorophenol	<2.0		2.0	0.57	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Hexachlorocyclopentadiene	<4.0		4.0	0.92	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
2-Methylnaphthalene	<1.0		1.0	0.26	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
2-Nitroaniline	<1.0		1.0	0.36	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
2-Chloronaphthalene	<1.0		1.0	0.22	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
4-Chloro-3-methylphenol	<2.0		2.0	0.95	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
2,6-Dinitrotoluene	<1.0		1.0	0.24	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
2-Nitrophenol	<2.0		2.0	0.31	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
3-Nitroaniline	<2.0		2.0	0.38	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Dimethyl phthalate	<1.0		1.0	0.25	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
2,4-Dinitrophenol	<4.0		4.0	1.0	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Acenaphthylene	<0.20		0.20	0.046	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
2,4-Dinitrotoluene	<1.0		1.0	0.30	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Acenaphthene	<0.20		0.20	0.059	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Dibenzofuran	<1.0		1.0	0.24	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
4-Nitrophenol	<4.0		4.0	1.1	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Fluorene	<0.20		0.20	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
4-Nitroaniline	<2.0		2.0	0.41	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
4-Bromophenyl phenyl ether	<1.0		1.0	0.22	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Hexachlorobenzene	<0.40		0.40	0.039	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Diethyl phthalate	<1.0		1.0	0.33	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
4-Chlorophenyl phenyl ether	<1.0		1.0	0.31	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Pentachlorophenol	<4.0		4.0	1.0	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
N-Nitrosodiphenylamine	<1.0		1.0	0.27	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
4,6-Dinitro-2-methylphenol	<2.0		2.0	0.48	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Phenanthrene	0.27		0.20	0.083	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Anthracene	0.052 J		0.20	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Carbazole	<1.0		1.0	0.28	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Di-n-butyl phthalate	<1.0		1.0	0.25	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Fluoranthene	0.64		0.20	0.081	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Pyrene	0.54		0.20	0.072	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Butyl benzyl phthalate	<1.0		1.0	0.25	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Benzo[a]anthracene	0.38		0.20	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-4

Client Sample ID: 846D-79-B01

Lab Sample ID: 500-61512-4

Date Collected: 08/20/13 09:10

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.58		0.20	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
3,3'-Dichlorobenzidine	<1.0		1.0	0.17	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Bis(2-ethylhexyl) phthalate	<1.0		1.0	0.26	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Di-n-octyl phthalate	<1.0		1.0	0.40	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Benzo[b]fluoranthene	0.59		0.20	0.038	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Benzo[k]fluoranthene	0.33		0.20	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Benzo[a]pyrene	0.44		0.20	0.036	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Indeno[1,2,3-cd]pyrene	0.17	J	0.20	0.067	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Dibenz(a,h)anthracene	0.12	J	0.20	0.055	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Benzo[g,h,i]perylene	0.19	J	0.20	0.067	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
3 & 4 Methylphenol	<1.0		1.0	0.38	mg/Kg	☼	09/01/13 22:08	09/03/13 18:13	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		25 - 110				09/01/13 22:08	09/03/13 18:13	5
Phenol-d5	50		31 - 110				09/01/13 22:08	09/03/13 18:13	5
Nitrobenzene-d5	49		25 - 115				09/01/13 22:08	09/03/13 18:13	5
2-Fluorobiphenyl	66		25 - 119				09/01/13 22:08	09/03/13 18:13	5
2,4,6-Tribromophenol	70		35 - 137				09/01/13 22:08	09/03/13 18:13	5
Terphenyl-d14	77		36 - 134				09/01/13 22:08	09/03/13 18:13	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Arsenic	5.5		0.59	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Barium	61		0.59	0.064	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Beryllium	0.67		0.24	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Boron	6.7		3.0	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Cadmium	0.70		0.12	0.015	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Calcium	37000	B	12	3.2	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Chromium	17		0.59	0.069	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Cobalt	6.8	B	0.30	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Copper	27		0.59	0.053	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Iron	16000		12	4.9	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Lead	140	B	0.30	0.089	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Magnesium	22000	B	5.9	1.2	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Manganese	270	B	0.59	0.032	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Nickel	20	B	0.59	0.058	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Potassium	1500		30	1.8	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Selenium	0.80		0.59	0.21	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Sodium	1500	B	59	8.0	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Thallium	0.37	J	0.59	0.25	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Vanadium	19		0.30	0.044	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Zinc	99	B	1.2	0.24	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1
Aluminum	9400		12	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 03:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/13 09:30	09/12/13 07:27	1
Chromium	<0.025		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 07:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-4

Client Sample ID: 846D-79-B01

Lab Sample ID: 500-61512-4

Date Collected: 08/20/13 09:10

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 07:27	1
Lead	0.0070	J	0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 07:27	1
Manganese	2.0		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 07:27	1
Nickel	0.022	J	0.025	0.010	mg/L		09/11/13 09:30	09/12/13 07:27	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 17:51	1
Beryllium	0.0059		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 17:51	1
Boron	0.78		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 17:51	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 17:51	1
Chromium	0.15		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 17:51	1
Cobalt	0.039		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 17:51	1
Iron	110		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 17:51	1
Lead	0.32		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 17:51	1
Manganese	0.69		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 17:51	1
Nickel	0.13		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 17:51	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 17:51	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 17:51	1
Zinc	0.93		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 17:51	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 09:30	09/11/13 16:48	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 19:31	1
Thallium	0.0021		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 19:31	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00027		0.00020	0.000020	mg/L		08/26/13 14:30	08/27/13 11:20	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.0088	mg/Kg	☼	08/23/13 13:30	08/26/13 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU			09/03/13 11:38	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-4

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Approximately 13160 to 13410 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59984 Longitude: -87.94220
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59984 Longitude: -87.94220

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-80-B01 THROUGH -B04 WERE SAMPLED ADJACENT TO SITE NO. 846D-80. SEE FIGURES 14 & 15, AND TABLE 3bm OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61605-3

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/15/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-80
Farmstead

Sample ID	846D-80-B01	846D-80-B02	846D-80-B02 DUJ	846D-80-B03	846D-80-B04	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-7	0-7	0-7	0-7	0-7						
Sample Date	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013						
PID	0	0	0	0	0						
Sample pH	8.2	8	8	7.07	7.7						
Matrix	Soil	Soil	Soil	Soil	Soil						
Inorganic Compounds, Total (mg/kg)											
Arsenic	10	4.2	4.6	7.7	1.3	11.3	NA	11.3	NA	13	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61605-3
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/13/2013 4:34:06 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B01

Lab Sample ID: 500-61605-7

Date Collected: 08/21/13 12:00

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1
Xylenes, Total	<0.0094		0.0094	0.00042	mg/Kg	☼	08/21/13 12:00	08/27/13 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	08/21/13 12:00	08/27/13 02:25	1
Dibromofluoromethane	102		75 - 120	08/21/13 12:00	08/27/13 02:25	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/21/13 12:00	08/27/13 02:25	1
Toluene-d8 (Surr)	98		75 - 122	08/21/13 12:00	08/27/13 02:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B01

Lab Sample ID: 500-61605-7

Date Collected: 08/21/13 12:00

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Pentachlorophenol	<0.77	*	0.77	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B01

Lab Sample ID: 500-61605-7

Date Collected: 08/21/13 12:00

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/03/13 07:37	09/04/13 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		25 - 110				09/03/13 07:37	09/04/13 17:38	1
Phenol-d5	49		31 - 110				09/03/13 07:37	09/04/13 17:38	1
Nitrobenzene-d5	50		25 - 115				09/03/13 07:37	09/04/13 17:38	1
2-Fluorobiphenyl	62		25 - 119				09/03/13 07:37	09/04/13 17:38	1
2,4,6-Tribromophenol	79		35 - 137				09/03/13 07:37	09/04/13 17:38	1
Terphenyl-d14	73		36 - 134				09/03/13 07:37	09/04/13 17:38	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00080	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
alpha-Chlordane	<0.0020		0.0020	0.00098	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
4,4'-DDD	<0.0020		0.0020	0.00038	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
Dieldrin	<0.0020		0.0020	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
Endosulfan I	<0.0020		0.0020	0.00084	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
Endosulfan II	<0.0020		0.0020	0.00031	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
Endrin aldehyde	<0.0020		0.0020	0.00032	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
Heptachlor	<0.0020		0.0020	0.00081	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
Methoxychlor	<0.0096		0.0096	0.00037	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
Toxaphene	<0.019		0.019	0.0081	mg/Kg	☼	09/03/13 07:23	09/04/13 19:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		56 - 128				09/03/13 07:23	09/04/13 19:54	1
Tetrachloro-m-xylene	81		45 - 112				09/03/13 07:23	09/04/13 19:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B01

Lab Sample ID: 500-61605-7

Date Collected: 08/21/13 12:00

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 83.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Arsenic	10		0.58	0.11	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Barium	69	B	0.58	0.062	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Beryllium	0.75		0.23	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Boron	8.0		2.9	0.12	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Cadmium	0.028	J B	0.12	0.015	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Calcium	23000	B	12	3.1	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Chromium	18		0.58	0.067	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Cobalt	13	B	0.29	0.021	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Copper	26		0.58	0.051	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Iron	23000		12	4.7	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Lead	16	B	0.29	0.086	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Magnesium	15000	B	5.8	1.2	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Manganese	890	B	5.8	0.31	mg/Kg	☼	08/22/13 16:00	09/13/13 12:45	10
Nickel	33	B	0.58	0.057	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Potassium	1900	B	29	1.7	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Selenium	1.1		0.58	0.21	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Silver	0.023	J	0.29	0.021	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Sodium	94	B	58	7.7	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Thallium	0.28	J	0.58	0.24	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Vanadium	23	B	0.29	0.043	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Zinc	55	B	1.2	0.23	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1
Aluminum	12000		12	1.1	mg/Kg	☼	08/22/13 16:00	09/12/13 05:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.24		0.20	0.20	mg/L		09/12/13 07:30	09/12/13 15:48	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2	B	0.50	0.010	mg/L		08/28/13 10:00	09/09/13 22:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/09/13 22:52	1
Boron	1.9		0.10	0.050	mg/L		08/28/13 10:00	09/09/13 22:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/09/13 22:52	1
Chromium	0.013	J	0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:52	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 22:52	1
Iron	7.8		0.20	0.20	mg/L		08/28/13 10:00	09/09/13 22:52	1
Lead	0.0057	J	0.0075	0.0050	mg/L		08/28/13 10:00	09/09/13 22:52	1
Manganese	0.042		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:52	1
Nickel	<0.025		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:52	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/09/13 22:52	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 22:52	1
Zinc	0.87		0.10	0.020	mg/L		08/28/13 10:00	09/09/13 22:52	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 19:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 19:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B01

Lab Sample ID: 500-61605-7

Date Collected: 08/21/13 12:00

Matrix: Solid

Date Received: 08/22/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 11:33	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.018	0.0086	mg/Kg	*	08/26/13 13:30	08/27/13 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.20		0.200	0.200	SU			09/03/13 12:32	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B02

Lab Sample ID: 500-61605-8

Date Collected: 08/21/13 11:45

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	08/21/13 11:45	08/27/13 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	08/21/13 11:45	08/27/13 02:48	1
Dibromofluoromethane	103		75 - 120	08/21/13 11:45	08/27/13 02:48	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/21/13 11:45	08/27/13 02:48	1
Toluene-d8 (Surr)	93		75 - 122	08/21/13 11:45	08/27/13 02:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.061	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B02

Lab Sample ID: 500-61605-8

Date Collected: 08/21/13 11:45

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
2-Chlorophenol	<0.20		0.20	0.055	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Dimethyl phthalate	<0.20		0.20	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Pentachlorophenol	<0.78	*	0.78	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Benzo[a]anthracene	<0.039		0.039	0.0081	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B02

Lab Sample ID: 500-61605-8

Date Collected: 08/21/13 11:45

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Benzo[b]fluoranthene	<0.039		0.039	0.0075	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
3 & 4 Methylphenol	<0.20		0.20	0.073	mg/Kg	☼	09/03/13 07:37	09/04/13 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	45		25 - 110				09/03/13 07:37	09/04/13 17:59	1
Phenol-d5	43		31 - 110				09/03/13 07:37	09/04/13 17:59	1
Nitrobenzene-d5	52		25 - 115				09/03/13 07:37	09/04/13 17:59	1
2-Fluorobiphenyl	57		25 - 119				09/03/13 07:37	09/04/13 17:59	1
2,4,6-Tribromophenol	77		35 - 137				09/03/13 07:37	09/04/13 17:59	1
Terphenyl-d14	58		36 - 134				09/03/13 07:37	09/04/13 17:59	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00079	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
alpha-Chlordane	<0.0019		0.0019	0.00097	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
beta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
4,4'-DDE	<0.0019		0.0019	0.00032	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
Endosulfan I	<0.0019		0.0019	0.00084	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
gamma-Chlordane	<0.0019		0.0019	0.00050	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
Heptachlor	<0.0019		0.0019	0.00080	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
Heptachlor epoxide	<0.0019		0.0019	0.00068	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
Methoxychlor	<0.0095		0.0095	0.00037	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
Toxaphene	<0.019		0.019	0.0080	mg/Kg	☼	09/03/13 07:23	09/04/13 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		56 - 128				09/03/13 07:23	09/04/13 20:14	1
Tetrachloro-m-xylene	83		45 - 112				09/03/13 07:23	09/04/13 20:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B02

Lab Sample ID: 500-61605-8

Date Collected: 08/21/13 11:45

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 82.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Arsenic	4.2		0.56	0.11	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Barium	73	B	0.56	0.060	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Beryllium	0.61		0.22	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Boron	2.5	J	2.8	0.12	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Cadmium	<0.11		0.11	0.014	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Calcium	9900	B	11	3.0	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Chromium	15		0.56	0.065	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Cobalt	8.1	B	0.28	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Copper	17		0.56	0.049	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Iron	19000		11	4.6	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Lead	14	B	0.28	0.083	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Magnesium	7300	B	5.6	1.1	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Manganese	410	B	0.56	0.030	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Nickel	22	B	0.56	0.055	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Potassium	820	B	28	1.7	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Selenium	0.92		0.56	0.20	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Sodium	77	B	56	7.5	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Thallium	<0.56		0.56	0.23	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Vanadium	20	B	0.28	0.041	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Zinc	41	B	1.1	0.22	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1
Aluminum	10000		11	1.0	mg/Kg	☼	08/22/13 16:00	09/12/13 05:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.85	B	0.50	0.010	mg/L		08/28/13 10:00	09/09/13 22:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/09/13 22:59	1
Boron	1.4		0.10	0.050	mg/L		08/28/13 10:00	09/09/13 22:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/09/13 22:59	1
Chromium	<0.025		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:59	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 22:59	1
Iron	2.7		0.20	0.20	mg/L		08/28/13 10:00	09/09/13 22:59	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	09/09/13 22:59	1
Manganese	0.013	J	0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:59	1
Nickel	<0.025		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 22:59	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/09/13 22:59	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 22:59	1
Zinc	0.63		0.10	0.020	mg/L		08/28/13 10:00	09/09/13 22:59	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 19:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 19:29	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 11:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B02

Lab Sample ID: 500-61605-8

Date Collected: 08/21/13 11:45

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 82.8

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.020	0.0094	mg/Kg	☼	08/26/13 13:30	08/27/13 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.00		0.200	0.200	SU			09/03/13 12:34	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B02 Dup

Lab Sample ID: 500-61605-9

Date Collected: 08/21/13 11:50

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 83.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	08/21/13 11:50	08/27/13 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	08/21/13 11:50	08/27/13 03:11	1
Dibromofluoromethane	104		75 - 120	08/21/13 11:50	08/27/13 03:11	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/21/13 11:50	08/27/13 03:11	1
Toluene-d8 (Surr)	94		75 - 122	08/21/13 11:50	08/27/13 03:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B02 Dup

Lab Sample ID: 500-61605-9

Date Collected: 08/21/13 11:50

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 83.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Pentachlorophenol	<0.76	*	0.76	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B02 Dup

Lab Sample ID: 500-61605-9

Date Collected: 08/21/13 11:50

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 83.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/03/13 07:37	09/04/13 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	37		25 - 110				09/03/13 07:37	09/04/13 18:20	1
Phenol-d5	36		31 - 110				09/03/13 07:37	09/04/13 18:20	1
Nitrobenzene-d5	39		25 - 115				09/03/13 07:37	09/04/13 18:20	1
2-Fluorobiphenyl	40		25 - 119				09/03/13 07:37	09/04/13 18:20	1
2,4,6-Tribromophenol	53		35 - 137				09/03/13 07:37	09/04/13 18:20	1
Terphenyl-d14	53		36 - 134				09/03/13 07:37	09/04/13 18:20	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
alpha-Chlordane	<0.0019		0.0019	0.00095	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
4,4'-DDT	<0.0019		0.0019	0.00099	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
Endosulfan I	<0.0019		0.0019	0.00083	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
Heptachlor	<0.0019		0.0019	0.00079	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
Methoxychlor	<0.0094		0.0094	0.00037	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	09/03/13 07:23	09/04/13 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	72		56 - 128				09/03/13 07:23	09/04/13 20:53	1
Tetrachloro-m-xylene	82		45 - 112				09/03/13 07:23	09/04/13 20:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B02 Dup

Lab Sample ID: 500-61605-9

Date Collected: 08/21/13 11:50

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 83.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Arsenic	4.6		0.57	0.11	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Barium	70	B	0.57	0.060	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Beryllium	0.61		0.23	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Boron	5.1		2.8	0.12	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Cadmium	0.19	B	0.11	0.014	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Calcium	25000	B	11	3.1	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Chromium	14		0.57	0.066	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Cobalt	8.3	B	0.28	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Copper	20		0.57	0.050	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Iron	14000		11	4.6	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Lead	13	B	0.28	0.084	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Magnesium	17000	B	5.7	1.2	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Manganese	1000	B	5.7	0.31	mg/Kg	☼	08/22/13 16:00	09/13/13 12:49	10
Nickel	22	B	0.57	0.055	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Potassium	1200	B	28	1.7	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Selenium	0.58		0.57	0.20	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Sodium	98	B	57	7.6	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Vanadium	22	B	0.28	0.042	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Zinc	38	B	1.1	0.23	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1
Aluminum	8200		11	1.0	mg/Kg	☼	08/22/13 16:00	09/12/13 05:59	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	B	0.50	0.010	mg/L		08/28/13 10:00	09/09/13 23:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/09/13 23:05	1
Boron	1.7		0.10	0.050	mg/L		08/28/13 10:00	09/09/13 23:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/09/13 23:05	1
Chromium	<0.025		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:05	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 23:05	1
Iron	1.6		0.20	0.20	mg/L		08/28/13 10:00	09/09/13 23:05	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	09/09/13 23:05	1
Manganese	0.021	J	0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:05	1
Nickel	<0.025		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:05	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/09/13 23:05	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 23:05	1
Zinc	0.77		0.10	0.020	mg/L		08/28/13 10:00	09/09/13 23:05	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 19:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 19:33	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 11:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B02 Dup

Lab Sample ID: 500-61605-9

Date Collected: 08/21/13 11:50

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 83.7

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.0089	mg/Kg	☼	08/26/13 13:30	08/27/13 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.00		0.200	0.200	SU			09/03/13 12:36	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B03

Lab Sample ID: 500-61605-10

Date Collected: 08/21/13 11:30

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 82.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	08/21/13 11:30	08/27/13 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	08/21/13 11:30	08/27/13 03:34	1
Dibromofluoromethane	101		75 - 120	08/21/13 11:30	08/27/13 03:34	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/21/13 11:30	08/27/13 03:34	1
Toluene-d8 (Surr)	95		75 - 122	08/21/13 11:30	08/27/13 03:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B03

Lab Sample ID: 500-61605-10

Date Collected: 08/21/13 11:30

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Pentachlorophenol	<0.81	*	0.81	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B03

Lab Sample ID: 500-61605-10

Date Collected: 08/21/13 11:30

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	09/03/13 07:37	09/04/13 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	35		25 - 110	09/03/13 07:37	09/04/13 18:40	1
Phenol-d5	34		31 - 110	09/03/13 07:37	09/04/13 18:40	1
Nitrobenzene-d5	38		25 - 115	09/03/13 07:37	09/04/13 18:40	1
2-Fluorobiphenyl	43		25 - 119	09/03/13 07:37	09/04/13 18:40	1
2,4,6-Tribromophenol	66		35 - 137	09/03/13 07:37	09/04/13 18:40	1
Terphenyl-d14	56		36 - 134	09/03/13 07:37	09/04/13 18:40	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00084	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
alpha-BHC	<0.0021		0.0021	0.00051	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
alpha-Chlordane	<0.0021		0.0021	0.0010	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
beta-BHC	<0.0021		0.0021	0.00063	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
4,4'-DDD	<0.0021		0.0021	0.00040	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
4,4'-DDE	<0.0021		0.0021	0.00034	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
delta-BHC	<0.0021		0.0021	0.00064	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
Dieldrin	<0.0021		0.0021	0.00028	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
Endosulfan I	<0.0021		0.0021	0.00088	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
Endosulfan II	<0.0021		0.0021	0.00033	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
Endosulfan sulfate	<0.0021		0.0021	0.00037	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
Endrin	<0.0021		0.0021	0.00028	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
Endrin aldehyde	<0.0021		0.0021	0.00034	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
Endrin ketone	<0.0021		0.0021	0.00046	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
gamma-BHC (Lindane)	<0.0021		0.0021	0.00044	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
gamma-Chlordane	<0.0021		0.0021	0.00053	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
Heptachlor	<0.0021		0.0021	0.00085	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
Heptachlor epoxide	<0.0021		0.0021	0.00072	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
Methoxychlor	<0.010		0.010	0.00039	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1
Toxaphene	<0.020		0.020	0.0085	mg/Kg	☼	09/03/13 07:23	09/04/13 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		56 - 128	09/03/13 07:23	09/04/13 21:13	1
Tetrachloro-m-xylene	81		45 - 112	09/03/13 07:23	09/04/13 21:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B03

Lab Sample ID: 500-61605-10

Date Collected: 08/21/13 11:30

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 82.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Arsenic	7.7		0.57	0.11	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Barium	120 B		0.57	0.061	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Beryllium	0.81		0.23	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Boron	3.2		2.9	0.12	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Cadmium	<0.11		0.11	0.015	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Calcium	3100 B		11	3.1	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Chromium	17		0.57	0.066	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Cobalt	14 B		0.29	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Copper	16		0.57	0.051	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Iron	19000		11	4.7	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Lead	20 B		0.29	0.085	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Magnesium	3200 B		5.7	1.2	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Manganese	1300 B		5.7	0.31	mg/Kg	☼	08/22/13 16:00	09/13/13 12:53	10
Nickel	19 B		0.57	0.056	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Potassium	1100 B		29	1.7	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Selenium	1.5		0.57	0.20	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Sodium	76 B		57	7.7	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Vanadium	27 B		0.29	0.042	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Zinc	50 B		1.1	0.23	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1
Aluminum	12000		11	1.1	mg/Kg	☼	08/22/13 16:00	09/12/13 06:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/12/13 07:30	09/12/13 15:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.79 B		0.50	0.010	mg/L		08/28/13 10:00	09/09/13 23:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/09/13 23:11	1
Boron	1.2		0.10	0.050	mg/L		08/28/13 10:00	09/09/13 23:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/09/13 23:11	1
Chromium	0.013 J		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:11	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 23:11	1
Iron	8.1		0.20	0.20	mg/L		08/28/13 10:00	09/09/13 23:11	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	09/09/13 23:11	1
Manganese	0.038		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:11	1
Nickel	<0.025		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:11	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/09/13 23:11	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 23:11	1
Zinc	0.56		0.10	0.020	mg/L		08/28/13 10:00	09/09/13 23:11	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 19:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 19:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B03

Lab Sample ID: 500-61605-10

Date Collected: 08/21/13 11:30

Matrix: Solid

Date Received: 08/22/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000022	J	0.00020	0.000020	mg/L	—	08/28/13 15:15	08/29/13 11:43	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.019	0.0088	mg/Kg	☼	08/26/13 13:30	08/27/13 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.07		0.200	0.200	SU	—		09/03/13 12:38	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B04

Lab Sample ID: 500-61605-11

Date Collected: 08/21/13 11:00

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	08/21/13 11:00	08/27/13 03:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/21/13 11:00	08/27/13 03:56	1
Dibromofluoromethane	105		75 - 120	08/21/13 11:00	08/27/13 03:56	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/21/13 11:00	08/27/13 03:56	1
Toluene-d8 (Surr)	94		75 - 122	08/21/13 11:00	08/27/13 03:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B04

Lab Sample ID: 500-61605-11

Date Collected: 08/21/13 11:00

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Pentachlorophenol	<0.76	*	0.76	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B04

Lab Sample ID: 500-61605-11

Date Collected: 08/21/13 11:00

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Benzo[b]fluoranthene	0.0076	J	0.038	0.0074	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Benzo[k]fluoranthene	0.010	J	0.038	0.0090	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Benzo[a]pyrene	0.0096	J	0.038	0.0069	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/03/13 07:37	09/04/13 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	25		25 - 110				09/03/13 07:37	09/04/13 22:26	1
Phenol-d5	31		31 - 110				09/03/13 07:37	09/04/13 22:26	1
Nitrobenzene-d5	30		25 - 115				09/03/13 07:37	09/04/13 22:26	1
2-Fluorobiphenyl	40		25 - 119				09/03/13 07:37	09/04/13 22:26	1
2,4,6-Tribromophenol	48		35 - 137				09/03/13 07:37	09/04/13 22:26	1
Terphenyl-d14	57		36 - 134				09/03/13 07:37	09/04/13 22:26	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00079	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
alpha-Chlordane	<0.0019		0.0019	0.00096	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
beta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
4,4'-DDE	<0.0019		0.0019	0.00032	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
Dieldrin	0.00044	J	0.0019	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
Endosulfan I	<0.0019		0.0019	0.00083	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
gamma-Chlordane	<0.0019		0.0019	0.00050	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
Heptachlor	<0.0019		0.0019	0.00080	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
Heptachlor epoxide	<0.0019		0.0019	0.00068	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
Methoxychlor	<0.0095		0.0095	0.00037	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
Toxaphene	<0.019		0.019	0.0080	mg/Kg	☼	09/03/13 07:23	09/04/13 21:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		56 - 128				09/03/13 07:23	09/04/13 21:33	1
Tetrachloro-m-xylene	67		45 - 112				09/03/13 07:23	09/04/13 21:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B04

Lab Sample ID: 500-61605-11

Date Collected: 08/21/13 11:00

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 86.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Arsenic	12		0.53	0.11	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Barium	110	B	0.53	0.057	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Beryllium	0.70		0.21	0.019	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Boron	3.7		2.7	0.11	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Cadmium	0.045	J B	0.11	0.014	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Calcium	2600	B	11	2.9	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Chromium	16		0.53	0.062	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Cobalt	15	B	0.27	0.019	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Copper	24		0.53	0.047	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Iron	26000		11	4.4	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Lead	20	B	0.27	0.079	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Magnesium	3300	B	5.3	1.1	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Manganese	1900	B	5.3	0.29	mg/Kg	☼	08/22/13 16:00	09/13/13 12:57	10
Nickel	34	B	0.53	0.052	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Potassium	1200	B	27	1.6	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Selenium	1.7		0.53	0.19	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Silver	0.046	J	0.27	0.019	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Sodium	49	J B	53	7.1	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Thallium	0.26	J	0.53	0.22	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Vanadium	24	B	0.27	0.039	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Zinc	51	B	1.1	0.22	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1
Aluminum	9900		11	0.98	mg/Kg	☼	08/22/13 16:00	09/12/13 06:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.4		0.20	0.20	mg/L		09/12/13 07:30	09/12/13 15:59	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1	B	0.50	0.010	mg/L		08/28/13 10:00	09/09/13 23:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/09/13 23:17	1
Boron	1.9		0.10	0.050	mg/L		08/28/13 10:00	09/09/13 23:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/09/13 23:17	1
Chromium	0.013	J	0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:17	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 23:17	1
Iron	7.6		0.20	0.20	mg/L		08/28/13 10:00	09/09/13 23:17	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	09/09/13 23:17	1
Manganese	0.040		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:17	1
Nickel	<0.025		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:17	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/09/13 23:17	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 23:17	1
Zinc	0.86		0.10	0.020	mg/L		08/28/13 10:00	09/09/13 23:17	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 19:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Client Sample ID: 846D-80-B04

Lab Sample ID: 500-61605-11

Date Collected: 08/21/13 11:00

Matrix: Solid

Date Received: 08/22/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 11:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.018	0.0084	mg/Kg	☼	08/26/13 13:30	08/27/13 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.70		0.200	0.200	SU			09/03/13 12:40	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: US6/IL7Willow Creek Co	COC No.: 1 of 1
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200	Project No.: IDOT 2013-023	Lab Job No.: 500-61605
Contact: Colleen Grey email: cgrey@andrews-eng.com	Contact: Dick Wright email: richard.wright@testamericainc.com	TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Sample Temp.:
Sampler:		Matrix Key:	

Special Instructions:
See Table 2 for complete parameter lists and minimum reporting limits.
* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
7	846D-80-B01	8/21/13	12:00	S	X	X			X		X	X	X	X		0-7'
8	846D-80-B02		11:45	S	X	X			X		X	X	X	X		0-7'
9	846D-80-B02 DUP		11:50	S	X	X			X		X	X	X	X		0-7'
10	846D-80-B03		11:30	S	X	X			X		X	X	X	X		0-7'
11	846D-80-B04		11:00	S	X	X			X		X	X	X	X		0-7'

Relinquished by: [Signature]	Date/Time: 8/21/13 3:35	Received by: [Signature]	Date/Time: 8/21/13 15:23
Relinquished by: [Signature]	Date/Time: 8/21/13 16:18	Received by: [Signature]	Date/Time: 8/21/13 06:30
Relinquished by:	Date/Time:	Received by:	Date/Time:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
12933 to 13401 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59965 Longitude: -87.93965
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59965 Longitude: -87.93965

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-81-B01 THROUGH -B08 WERE SAMPLED ADJACENT TO SITE NO. 846D-81. SEE FIGURES 14, 15, & 16, AND TABLE 3bn OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61512-5

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

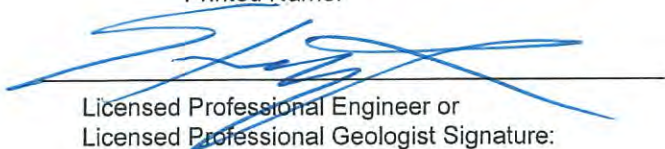
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

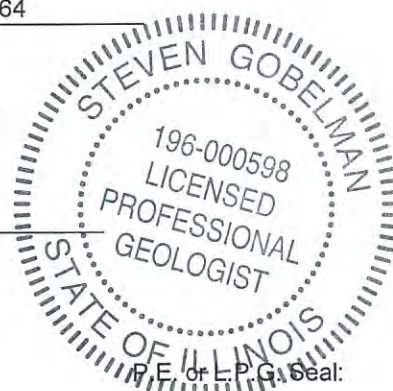
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-81

Vacant Area

Sample ID	846D-81-B01	846D-81-B02	846D-81-B03	846D-81-B04	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4	0-4	0-4	0-4						
Sample Date	8/20/2013	8/20/2013	8/20/2013	8/20/2013						
PID	0	0	0	0						
Sample pH	8.99	8.91	8.32	8.94						
Matrix	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

Sample ID	846D-81-B05	846D-81-B06	846D-81-B07	846D-81-B08	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4	0-4	0-4	0-4						
Sample Date	8/20/2013	8/20/2013	8/20/2013	8/20/2013						
PID	0	0	0	0						
Sample pH	8.83	8.33	8.32	8.34						
Matrix	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61512-5
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/12/2013 2:26:46 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B01

Lab Sample ID: 500-61512-5

Date Collected: 08/20/13 09:50

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0051		0.0044	0.0019	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	08/20/13 09:50	08/27/13 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	08/20/13 09:50	08/27/13 18:27	1
Dibromofluoromethane	102		75 - 120	08/20/13 09:50	08/27/13 18:27	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	08/20/13 09:50	08/27/13 18:27	1
Toluene-d8 (Surr)	103		75 - 122	08/20/13 09:50	08/27/13 18:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B01

Lab Sample ID: 500-61512-5

Date Collected: 08/20/13 09:50

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Fluoranthene	0.020	J	0.038	0.016	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Pyrene	0.018	J	0.038	0.014	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Benzo[a]anthracene	0.012	J	0.038	0.0080	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B01

Lab Sample ID: 500-61512-5

Date Collected: 08/20/13 09:50

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.018	J	0.038	0.0086	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Benzo[b]fluoranthene	0.022	J	0.038	0.0074	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Benzo[a]pyrene	0.014	J	0.038	0.0069	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/01/13 22:08	09/03/13 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	41		25 - 110	09/01/13 22:08	09/03/13 18:29	1
Phenol-d5	36		31 - 110	09/01/13 22:08	09/03/13 18:29	1
Nitrobenzene-d5	38		25 - 115	09/01/13 22:08	09/03/13 18:29	1
2-Fluorobiphenyl	47		25 - 119	09/01/13 22:08	09/03/13 18:29	1
2,4,6-Tribromophenol	37		35 - 137	09/01/13 22:08	09/03/13 18:29	1
Terphenyl-d14	56		36 - 134	09/01/13 22:08	09/03/13 18:29	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
Endosulfan I	<0.0019		0.0019	0.00082	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	09/03/13 07:23	09/04/13 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		56 - 128	09/03/13 07:23	09/04/13 12:42	1
Tetrachloro-m-xylene	84		45 - 112	09/03/13 07:23	09/04/13 12:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B01

Lab Sample ID: 500-61512-5

Date Collected: 08/20/13 09:50

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 85.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Arsenic	8.0		0.54	0.11	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Barium	59		0.54	0.058	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Beryllium	0.62		0.22	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Boron	8.4		2.7	0.11	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Cadmium	0.37		0.11	0.014	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Calcium	47000	B	11	2.9	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Chromium	16		0.54	0.063	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Cobalt	9.5	B	0.27	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Copper	20		0.54	0.048	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Iron	19000		11	4.4	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Lead	13	B	0.27	0.081	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Magnesium	24000	B	5.4	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Manganese	420	B	0.54	0.029	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Nickel	26	B	0.54	0.053	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Potassium	1900		27	1.6	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Selenium	0.71		0.54	0.19	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Sodium	1300	B	54	7.2	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Thallium	0.34	J	0.54	0.23	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Vanadium	20		0.27	0.040	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Zinc	48	B	1.1	0.22	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1
Aluminum	10000		11	1.0	mg/Kg	☼	08/21/13 16:00	09/10/13 04:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 07:33	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 07:33	1
Manganese	0.60		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 07:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.79	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 17:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 17:56	1
Boron	0.75		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 17:56	1
Cadmium	0.0036	J	0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 17:56	1
Chromium	0.068		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 17:56	1
Cobalt	0.015	J	0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 17:56	1
Iron	65		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 17:56	1
Lead	0.035		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 17:56	1
Manganese	0.29		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 17:56	1
Nickel	0.063		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 17:56	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 17:56	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 17:56	1
Zinc	0.71		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 17:56	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 09:30	09/11/13 16:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B01

Lab Sample ID: 500-61512-5

Date Collected: 08/20/13 09:50

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 19:35	1
Thallium	0.0020		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 19:35	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000098	J	0.00020	0.000020	mg/L		08/26/13 14:30	08/27/13 11:22	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0086	mg/Kg	☼	08/23/13 13:30	08/26/13 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.99		0.200	0.200	SU			09/03/13 11:40	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B02

Lab Sample ID: 500-61512-6

Date Collected: 08/20/13 09:35

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Benzene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Carbon tetrachloride	<0.0046		0.0046	0.00085	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Chloromethane	<0.0046		0.0046	0.00098	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Dibromochloromethane	<0.0046		0.0046	0.00081	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
1,1-Dichloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
1,2-Dichloropropane	<0.0046		0.0046	0.00071	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Ethylbenzene	<0.0046		0.0046	0.00094	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00077	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Trichloroethene	<0.0046		0.0046	0.00077	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Vinyl chloride	<0.0046		0.0046	0.00098	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	08/20/13 09:35	08/27/13 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/20/13 09:35	08/27/13 18:50	1
Dibromofluoromethane	101		75 - 120	08/20/13 09:35	08/27/13 18:50	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/20/13 09:35	08/27/13 18:50	1
Toluene-d8 (Surr)	99		75 - 122	08/20/13 09:35	08/27/13 18:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B02

Lab Sample ID: 500-61512-6

Date Collected: 08/20/13 09:35

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B02

Lab Sample ID: 500-61512-6

Date Collected: 08/20/13 09:35

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	09/01/13 22:08	09/03/13 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	38		25 - 110	09/01/13 22:08	09/03/13 18:46	1
Phenol-d5	34		31 - 110	09/01/13 22:08	09/03/13 18:46	1
Nitrobenzene-d5	36		25 - 115	09/01/13 22:08	09/03/13 18:46	1
2-Fluorobiphenyl	44		25 - 119	09/01/13 22:08	09/03/13 18:46	1
2,4,6-Tribromophenol	37		35 - 137	09/01/13 22:08	09/03/13 18:46	1
Terphenyl-d14	51		36 - 134	09/01/13 22:08	09/03/13 18:46	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
alpha-Chlordane	<0.0019		0.0019	0.00093	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
beta-BHC	<0.0019		0.0019	0.00057	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
4,4'-DDT	<0.0019		0.0019	0.00097	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
delta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
Endosulfan I	<0.0019		0.0019	0.00081	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
gamma-Chlordane	<0.0019		0.0019	0.00048	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
Heptachlor	<0.0019		0.0019	0.00077	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
Methoxychlor	<0.0092		0.0092	0.00036	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1
Toxaphene	<0.018		0.018	0.0078	mg/Kg	☼	09/03/13 07:23	09/04/13 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		56 - 128	09/03/13 07:23	09/04/13 13:01	1
Tetrachloro-m-xylene	84		45 - 112	09/03/13 07:23	09/04/13 13:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B02

Lab Sample ID: 500-61512-6

Date Collected: 08/20/13 09:35

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 89.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Arsenic	8.4		0.53	0.11	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Barium	42		0.53	0.057	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Beryllium	0.61		0.21	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Boron	8.5		2.6	0.11	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Cadmium	0.40		0.11	0.013	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Calcium	72000	B	110	29	mg/Kg	☼	08/21/13 16:00	09/10/13 15:41	10
Chromium	15		0.53	0.061	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Cobalt	9.9	B	0.26	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Copper	23		0.53	0.047	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Iron	19000		11	4.4	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Lead	13	B	0.26	0.079	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Magnesium	24000	B	5.3	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Manganese	400	B	0.53	0.029	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Nickel	26	B	0.53	0.052	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Potassium	1900		26	1.6	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Selenium	0.72		0.53	0.19	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Sodium	800	B	53	7.1	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Thallium	0.56		0.53	0.22	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Vanadium	18		0.26	0.039	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Zinc	48	B	1.1	0.21	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1
Aluminum	9000		11	0.97	mg/Kg	☼	08/21/13 16:00	09/10/13 04:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 07:38	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 07:38	1
Manganese	0.21		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 07:38	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.75	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 18:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 18:00	1
Boron	0.78		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 18:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 18:00	1
Chromium	0.075		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:00	1
Cobalt	0.021	J	0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:00	1
Iron	81		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 18:00	1
Lead	0.037		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 18:00	1
Manganese	0.35		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:00	1
Nickel	0.088		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:00	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 18:00	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:00	1
Zinc	0.58		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 18:00	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 09:30	09/11/13 16:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B02

Lab Sample ID: 500-61512-6

Date Collected: 08/20/13 09:35

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 19:38	1
Thallium	0.0025		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 19:38	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J	0.00020	0.000020	mg/L		08/26/13 14:30	08/27/13 11:28	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.016	0.0077	mg/Kg	☼	08/23/13 13:30	08/26/13 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.91		0.200	0.200	SU			09/03/13 11:42	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B03

Lab Sample ID: 500-61512-7

Date Collected: 08/20/13 10:05

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
1,1,1-Dichloroethane	<0.0048		0.0048	0.00078	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1
Xylenes, Total	<0.0096		0.0096	0.00044	mg/Kg	☼	08/20/13 10:05	08/27/13 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/20/13 10:05	08/27/13 19:14	1
Dibromofluoromethane	101		75 - 120	08/20/13 10:05	08/27/13 19:14	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/20/13 10:05	08/27/13 19:14	1
Toluene-d8 (Surr)	108		75 - 122	08/20/13 10:05	08/27/13 19:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	09/01/13 22:08	09/03/13 19:02	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/01/13 22:08	09/03/13 19:02	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 19:02	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 19:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B03

Lab Sample ID: 500-61512-7

Date Collected: 08/20/13 10:05

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Isophorone	<0.20		0.20	0.045	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Carbazole	<0.20		0.20	0.057	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Pyrene	<0.040		0.040	0.015	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	*	09/01/13 22:08	09/03/13 19:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B03

Lab Sample ID: 500-61512-7

Date Collected: 08/20/13 10:05

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0092	mg/Kg	☼	09/01/13 22:08	09/03/13 19:02	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	09/01/13 22:08	09/03/13 19:02	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	09/01/13 22:08	09/03/13 19:02	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	09/01/13 22:08	09/03/13 19:02	1
Benzo[b]fluoranthene	<0.040		0.040	0.0079	mg/Kg	☼	09/01/13 22:08	09/03/13 19:02	1
Benzo[k]fluoranthene	<0.040		0.040	0.0097	mg/Kg	☼	09/01/13 22:08	09/03/13 19:02	1
Benzo[a]pyrene	<0.040		0.040	0.0074	mg/Kg	☼	09/01/13 22:08	09/03/13 19:02	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	09/01/13 22:08	09/03/13 19:02	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 19:02	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	09/01/13 22:08	09/03/13 19:02	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	09/01/13 22:08	09/03/13 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		25 - 110	09/01/13 22:08	09/03/13 19:02	1
Phenol-d5	67		31 - 110	09/01/13 22:08	09/03/13 19:02	1
Nitrobenzene-d5	76		25 - 115	09/01/13 22:08	09/03/13 19:02	1
2-Fluorobiphenyl	90		25 - 119	09/01/13 22:08	09/03/13 19:02	1
2,4,6-Tribromophenol	99		35 - 137	09/01/13 22:08	09/03/13 19:02	1
Terphenyl-d14	109		36 - 134	09/01/13 22:08	09/03/13 19:02	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00086	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
alpha-BHC	<0.0021		0.0021	0.00052	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
alpha-Chlordane	<0.0021		0.0021	0.0010	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
beta-BHC	<0.0021		0.0021	0.00064	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
4,4'-DDD	<0.0021		0.0021	0.00041	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
4,4'-DDE	<0.0021		0.0021	0.00034	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
delta-BHC	<0.0021		0.0021	0.00065	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
Dieldrin	<0.0021		0.0021	0.00028	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
Endosulfan I	<0.0021		0.0021	0.00090	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
Endosulfan II	<0.0021		0.0021	0.00033	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
Endosulfan sulfate	<0.0021		0.0021	0.00038	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
Endrin	<0.0021		0.0021	0.00029	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
Endrin aldehyde	<0.0021		0.0021	0.00035	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
Endrin ketone	<0.0021		0.0021	0.00047	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
gamma-BHC (Lindane)	<0.0021		0.0021	0.00045	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
gamma-Chlordane	<0.0021		0.0021	0.00054	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
Heptachlor	<0.0021		0.0021	0.00087	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
Heptachlor epoxide	<0.0021		0.0021	0.00073	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
Methoxychlor	<0.010		0.010	0.00040	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1
Toxaphene	<0.021		0.021	0.0087	mg/Kg	☼	09/03/13 07:23	09/04/13 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		56 - 128	09/03/13 07:23	09/04/13 14:20	1
Tetrachloro-m-xylene	82		45 - 112	09/03/13 07:23	09/04/13 14:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B03

Lab Sample ID: 500-61512-7

Date Collected: 08/20/13 10:05

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 80.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Arsenic	7.8		0.57	0.11	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Barium	80		0.57	0.061	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Beryllium	0.78		0.23	0.020	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Boron	4.5		2.9	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Cadmium	0.21		0.11	0.015	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Calcium	4200	B	11	3.1	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Chromium	19		0.57	0.067	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Cobalt	8.7	B	0.29	0.020	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Copper	18		0.57	0.051	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Iron	23000		11	4.7	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Lead	16	B	0.29	0.085	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Magnesium	4500	B	5.7	1.2	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Manganese	270	B	0.57	0.031	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Nickel	22	B	0.57	0.056	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Potassium	1500		29	1.7	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Selenium	1.4		0.57	0.20	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Sodium	680	B	57	7.7	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Thallium	0.74		0.57	0.24	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Vanadium	24		0.29	0.042	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Zinc	62	B	1.1	0.23	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1
Aluminum	13000		11	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 04:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/13 09:30	09/12/13 07:43	1
Chromium	<0.025		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 07:43	1
Iron	0.80		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 07:43	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 07:43	1
Manganese	0.018	J	0.025	0.010	mg/L		09/11/13 09:30	09/12/13 07:43	1
Nickel	<0.025		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 07:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 18:03	1
Beryllium	0.0056		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 18:03	1
Boron	0.68		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 18:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 18:03	1
Chromium	0.13		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:03	1
Cobalt	0.021	J	0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:03	1
Iron	120		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 18:03	1
Lead	0.054		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 18:03	1
Manganese	0.35		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:03	1
Nickel	0.10		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:03	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 18:03	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:03	1
Zinc	0.68		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 18:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B03

Lab Sample ID: 500-61512-7

Date Collected: 08/20/13 10:05

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 09:30	09/11/13 16:51	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 19:42	1
Thallium	0.0030		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 19:42	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00023		0.00020	0.000020	mg/L		08/26/13 14:30	08/27/13 11:30	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.019	0.0088	mg/Kg	☼	08/23/13 13:30	08/26/13 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU			09/03/13 11:45	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B04

Lab Sample ID: 500-61512-8

Date Collected: 08/20/13 10:15

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 91.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0022	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Vinyl acetate	<0.0052		0.0052	0.00082	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	08/20/13 10:15	08/27/13 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/20/13 10:15	08/27/13 19:38	1
Dibromofluoromethane	96		75 - 120	08/20/13 10:15	08/27/13 19:38	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/20/13 10:15	08/27/13 19:38	1
Toluene-d8 (Surr)	104		75 - 122	08/20/13 10:15	08/27/13 19:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.054	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B04

Lab Sample ID: 500-61512-8

Date Collected: 08/20/13 10:15

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 91.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Naphthalene	<0.034		0.034	0.0066	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
4-Chloroaniline	<0.69		0.69	0.10	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
2,4,5-Trichlorophenol	<0.34		0.34	0.098	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Hexachlorocyclopentadiene	<0.69		0.69	0.16	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
2-Methylnaphthalene	<0.17		0.17	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
2,4-Dinitrophenol	<0.69		0.69	0.18	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Acenaphthylene	<0.034		0.034	0.0079	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
4-Nitrophenol	<0.69		0.69	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Fluorene	<0.034		0.034	0.0078	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
4-Nitroaniline	<0.34		0.34	0.071	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Hexachlorobenzene	<0.069		0.069	0.0068	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Pentachlorophenol	<0.69		0.69	0.18	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
N-Nitrosodiphenylamine	<0.17		0.17	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.083	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Anthracene	<0.034		0.034	0.0081	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Benzo[a]anthracene	<0.034		0.034	0.0072	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B04

Lab Sample ID: 500-61512-8

Date Collected: 08/20/13 10:15

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 91.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.034		0.034	0.0078	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.046	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Di-n-octyl phthalate	<0.17		0.17	0.070	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Benzo[b]fluoranthene	<0.034		0.034	0.0067	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Benzo[k]fluoranthene	<0.034		0.034	0.0082	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Benzo[a]pyrene	<0.034		0.034	0.0063	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0096	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Benzo[g,h,i]perylene	<0.034		0.034	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
3 & 4 Methylphenol	<0.17		0.17	0.065	mg/Kg	☼	09/01/13 22:08	09/03/13 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		25 - 110				09/01/13 22:08	09/03/13 19:19	1
Phenol-d5	46		31 - 110				09/01/13 22:08	09/03/13 19:19	1
Nitrobenzene-d5	50		25 - 115				09/01/13 22:08	09/03/13 19:19	1
2-Fluorobiphenyl	59		25 - 119				09/01/13 22:08	09/03/13 19:19	1
2,4,6-Tribromophenol	59		35 - 137				09/01/13 22:08	09/03/13 19:19	1
Terphenyl-d14	76		36 - 134				09/01/13 22:08	09/03/13 19:19	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0018		0.0018	0.00074	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
alpha-BHC	<0.0018		0.0018	0.00045	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
alpha-Chlordane	<0.0018		0.0018	0.00090	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
beta-BHC	<0.0018		0.0018	0.00055	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
4,4'-DDD	<0.0018		0.0018	0.00036	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
4,4'-DDE	<0.0018		0.0018	0.00030	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
4,4'-DDT	<0.0018		0.0018	0.00094	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
delta-BHC	<0.0018		0.0018	0.00056	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
Dieldrin	<0.0018		0.0018	0.00024	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
Endosulfan I	<0.0018		0.0018	0.00078	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
Endosulfan II	<0.0018		0.0018	0.00029	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
Endosulfan sulfate	<0.0018		0.0018	0.00033	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
Endrin	<0.0018		0.0018	0.00025	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
Endrin aldehyde	<0.0018		0.0018	0.00030	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
Endrin ketone	<0.0018		0.0018	0.00040	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
gamma-BHC (Lindane)	<0.0018		0.0018	0.00039	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
gamma-Chlordane	<0.0018		0.0018	0.00047	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
Heptachlor	<0.0018		0.0018	0.00075	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
Heptachlor epoxide	<0.0018		0.0018	0.00063	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
Methoxychlor	<0.0088		0.0088	0.00035	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
Toxaphene	<0.018		0.018	0.0075	mg/Kg	☼	09/03/13 07:23	09/04/13 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	61		56 - 128				09/03/13 07:23	09/04/13 14:40	1
Tetrachloro-m-xylene	83		45 - 112				09/03/13 07:23	09/04/13 14:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B04

Lab Sample ID: 500-61512-8

Date Collected: 08/20/13 10:15

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 91.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Arsenic	11		0.52	0.10	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Barium	44		0.52	0.056	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Beryllium	0.59		0.21	0.018	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Boron	7.4		2.6	0.11	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Cadmium	0.32		0.10	0.013	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Calcium	52000	B	10	2.8	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Chromium	15		0.52	0.060	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Cobalt	11	B	0.26	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Copper	22		0.52	0.046	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Iron	20000		10	4.3	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Lead	12	B	0.26	0.078	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Magnesium	24000	B	5.2	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Manganese	420	B	0.52	0.028	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Nickel	28	B	0.52	0.051	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Potassium	1700		26	1.6	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Selenium	0.68		0.52	0.18	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Sodium	500	B	52	7.0	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Thallium	0.42	J	0.52	0.22	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Vanadium	19		0.26	0.039	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Zinc	47	B	1.0	0.21	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1
Aluminum	9100		10	0.96	mg/Kg	☼	08/21/13 16:00	09/10/13 04:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 07:48	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 07:48	1
Manganese	0.26		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 07:48	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 18:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 18:08	1
Boron	0.75		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 18:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 18:08	1
Chromium	0.045		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:08	1
Cobalt	0.0095	J	0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:08	1
Iron	40		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 18:08	1
Lead	0.020		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 18:08	1
Manganese	0.15		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:08	1
Nickel	0.039		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:08	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 18:08	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:08	1
Zinc	0.46		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 18:08	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 19:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 19:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B04

Lab Sample ID: 500-61512-8

Date Collected: 08/20/13 10:15

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000076	J	0.00020	0.000020	mg/L	—	08/26/13 14:30	08/27/13 11:32	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.016	0.0074	mg/Kg	☼	08/23/13 13:30	08/26/13 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.94		0.200	0.200	SU	—		09/03/13 11:47	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B05

Lab Sample ID: 500-61512-9

Date Collected: 08/20/13 10:25

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Vinyl acetate	<0.0047		0.0047	0.00073	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	08/20/13 10:25	08/27/13 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	08/20/13 10:25	08/27/13 20:01	1
Dibromofluoromethane	101		75 - 120	08/20/13 10:25	08/27/13 20:01	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/20/13 10:25	08/27/13 20:01	1
Toluene-d8 (Surr)	106		75 - 122	08/20/13 10:25	08/27/13 20:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B05

Lab Sample ID: 500-61512-9

Date Collected: 08/20/13 10:25

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Fluoranthene	0.032	J	0.037	0.015	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Pyrene	0.029	J	0.037	0.014	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Benzo[a]anthracene	0.022	J	0.037	0.0079	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B05

Lab Sample ID: 500-61512-9

Date Collected: 08/20/13 10:25

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.035	J	0.037	0.0085	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Di-n-octyl phthalate	0.078	J	0.19	0.076	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Benzo[b]fluoranthene	0.029	J	0.037	0.0073	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Benzo[k]fluoranthene	0.020	J	0.037	0.0090	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Benzo[a]pyrene	0.024	J	0.037	0.0068	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/01/13 22:08	09/03/13 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	34		25 - 110	09/01/13 22:08	09/03/13 19:36	1
Phenol-d5	39		31 - 110	09/01/13 22:08	09/03/13 19:36	1
Nitrobenzene-d5	34		25 - 115	09/01/13 22:08	09/03/13 19:36	1
2-Fluorobiphenyl	52		25 - 119	09/01/13 22:08	09/03/13 19:36	1
2,4,6-Tribromophenol	56		35 - 137	09/01/13 22:08	09/03/13 19:36	1
Terphenyl-d14	77		36 - 134	09/01/13 22:08	09/03/13 19:36	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.020		0.020	0.0081	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
alpha-BHC	<0.020		0.020	0.0049	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
alpha-Chlordane	<0.020		0.020	0.0098	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
beta-BHC	<0.020		0.020	0.0060	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
4,4'-DDD	<0.020		0.020	0.0039	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
4,4'-DDE	<0.020		0.020	0.0032	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
4,4'-DDT	<0.020		0.020	0.010	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
delta-BHC	<0.020		0.020	0.0061	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
Dieldrin	<0.020		0.020	0.0027	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
Endosulfan I	<0.020		0.020	0.0085	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
Endosulfan II	<0.020		0.020	0.0032	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
Endosulfan sulfate	<0.020		0.020	0.0035	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
Endrin	<0.020		0.020	0.0027	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
Endrin aldehyde	<0.020		0.020	0.0033	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
Endrin ketone	<0.020		0.020	0.0044	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
gamma-BHC (Lindane)	<0.020		0.020	0.0042	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
gamma-Chlordane	<0.020		0.020	0.0051	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
Heptachlor	<0.020		0.020	0.0082	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
Heptachlor epoxide	<0.020		0.020	0.0069	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
Methoxychlor	<0.097		0.097	0.0038	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10
Toxaphene	<0.19		0.19	0.082	mg/Kg	☼	09/03/13 07:23	09/04/13 14:59	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		56 - 128	09/03/13 07:23	09/04/13 14:59	10
Tetrachloro-m-xylene	103		45 - 112	09/03/13 07:23	09/04/13 14:59	10

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B05

Lab Sample ID: 500-61512-9

Date Collected: 08/20/13 10:25

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 83.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Arsenic	10		0.59	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Barium	88		0.59	0.063	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Beryllium	0.69		0.24	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Boron	5.9		3.0	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Cadmium	0.33		0.12	0.015	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Calcium	26000	B	12	3.2	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Chromium	17		0.59	0.069	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Cobalt	12	B	0.30	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Copper	23		0.59	0.052	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Iron	21000		12	4.9	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Lead	22	B	0.30	0.088	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Magnesium	16000	B	5.9	1.2	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Manganese	570	B	0.59	0.032	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Nickel	25	B	0.59	0.058	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Potassium	1600		30	1.8	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Selenium	1.0		0.59	0.21	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Sodium	590	B	59	7.9	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Thallium	0.49	J	0.59	0.25	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Vanadium	22		0.30	0.044	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Zinc	57	B	1.2	0.24	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1
Aluminum	11000		12	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 04:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/13 09:30	09/12/13 08:01	1
Chromium	<0.025		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 08:01	1
Iron	<0.20		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 08:01	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 08:01	1
Manganese	0.59		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 08:01	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.99	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 18:12	1
Beryllium	0.0052		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 18:12	1
Boron	0.69		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 18:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 18:12	1
Chromium	0.13		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:12	1
Cobalt	0.028		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:12	1
Iron	120		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 18:12	1
Lead	0.079		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 18:12	1
Manganese	0.44		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:12	1
Nickel	0.097		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:12	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 18:12	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:12	1
Zinc	0.65		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 18:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B05

Lab Sample ID: 500-61512-9

Date Collected: 08/20/13 10:25

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 20:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 20:01	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00027		0.00020	0.000020	mg/L		08/26/13 14:30	08/27/13 11:34	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.019	0.0090	mg/Kg	☼	08/23/13 13:30	08/26/13 11:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.83		0.200	0.200	SU			09/03/13 11:49	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B06

Lab Sample ID: 500-61512-10

Date Collected: 08/20/13 10:40

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 80.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.040		0.0046	0.0020	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Benzene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Dibromochloromethane	<0.0046		0.0046	0.00081	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00075	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Ethylbenzene	<0.0046		0.0046	0.00094	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00077	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Trichloroethene	<0.0046		0.0046	0.00077	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	08/20/13 10:40	08/27/13 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/20/13 10:40	08/27/13 20:25	1
Dibromofluoromethane	97		75 - 120	08/20/13 10:40	08/27/13 20:25	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/20/13 10:40	08/27/13 20:25	1
Toluene-d8 (Surr)	106		75 - 122	08/20/13 10:40	08/27/13 20:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	09/01/13 22:08	09/03/13 19:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/01/13 22:08	09/03/13 19:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 19:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 19:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B06

Lab Sample ID: 500-61512-10

Date Collected: 08/20/13 10:40

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 80.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Isophorone	<0.20		0.20	0.043	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Carbazole	<0.20		0.20	0.055	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Pyrene	0.017	J	0.039	0.014	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1
Benzo[a]anthracene	0.018	J	0.039	0.0082	mg/Kg	*	09/01/13 22:08	09/03/13 19:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B06

Lab Sample ID: 500-61512-10

Date Collected: 08/20/13 10:40

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 80.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.029	J	0.039	0.0088	mg/Kg	☼	09/01/13 22:08	09/03/13 19:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	09/01/13 22:08	09/03/13 19:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/01/13 22:08	09/03/13 19:52	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	09/01/13 22:08	09/03/13 19:52	1
Benzo[b]fluoranthene	0.026	J	0.039	0.0076	mg/Kg	☼	09/01/13 22:08	09/03/13 19:52	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	09/01/13 22:08	09/03/13 19:52	1
Benzo[a]pyrene	0.020	J	0.039	0.0071	mg/Kg	☼	09/01/13 22:08	09/03/13 19:52	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 19:52	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 19:52	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 19:52	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	09/01/13 22:08	09/03/13 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	33		25 - 110				09/01/13 22:08	09/03/13 19:52	1
Phenol-d5	33		31 - 110				09/01/13 22:08	09/03/13 19:52	1
Nitrobenzene-d5	30		25 - 115				09/01/13 22:08	09/03/13 19:52	1
2-Fluorobiphenyl	41		25 - 119				09/01/13 22:08	09/03/13 19:52	1
2,4,6-Tribromophenol	50		35 - 137				09/01/13 22:08	09/03/13 19:52	1
Terphenyl-d14	58		36 - 134				09/01/13 22:08	09/03/13 19:52	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.021		0.021	0.0084	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
alpha-BHC	<0.021		0.021	0.0051	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
alpha-Chlordane	<0.021		0.021	0.010	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
beta-BHC	<0.021		0.021	0.0063	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
4,4'-DDD	<0.021		0.021	0.0040	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
4,4'-DDE	<0.021		0.021	0.0033	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
4,4'-DDT	<0.021		0.021	0.011	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
delta-BHC	<0.021		0.021	0.0064	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
Dieldrin	<0.021		0.021	0.0028	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
Endosulfan I	<0.021		0.021	0.0088	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
Endosulfan II	<0.021		0.021	0.0033	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
Endosulfan sulfate	<0.021		0.021	0.0037	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
Endrin	<0.021		0.021	0.0028	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
Endrin aldehyde	<0.021		0.021	0.0034	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
Endrin ketone	<0.021		0.021	0.0046	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
gamma-BHC (Lindane)	<0.021		0.021	0.0044	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
gamma-Chlordane	<0.021		0.021	0.0053	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
Heptachlor	<0.021		0.021	0.0085	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
Heptachlor epoxide	<0.021		0.021	0.0072	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
Methoxychlor	<0.10		0.10	0.0039	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
Toxaphene	<0.20		0.20	0.085	mg/Kg	☼	09/03/13 07:23	09/04/13 15:39	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		56 - 128				09/03/13 07:23	09/04/13 15:39	10
Tetrachloro-m-xylene	128	X	45 - 112				09/03/13 07:23	09/04/13 15:39	10

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B06

Lab Sample ID: 500-61512-10

Date Collected: 08/20/13 10:40

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 80.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Arsenic	8.7		0.57	0.11	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Barium	61		0.57	0.061	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Beryllium	0.77		0.23	0.020	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Boron	5.2		2.9	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Cadmium	0.23		0.11	0.015	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Calcium	11000	B	11	3.1	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Chromium	19		0.57	0.066	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Cobalt	11	B	0.29	0.020	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Copper	24		0.57	0.051	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Iron	24000		11	4.7	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Lead	24	B	0.29	0.085	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Magnesium	7500	B	5.7	1.2	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Manganese	280	B	0.57	0.031	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Nickel	25	B	0.57	0.056	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Potassium	1500		29	1.7	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Selenium	1.5		0.57	0.20	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Sodium	1700	B	57	7.7	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Thallium	0.28	J	0.57	0.24	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Vanadium	24		0.29	0.042	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Zinc	59	B	1.1	0.23	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1
Aluminum	13000		11	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 04:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 08:06	1
Lead	0.0050	J	0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 08:06	1
Manganese	7.5		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 08:06	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.81	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 18:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 18:17	1
Boron	0.75		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 18:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 18:17	1
Chromium	0.067		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:17	1
Cobalt	0.029		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:17	1
Iron	74		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 18:17	1
Lead	0.064		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 18:17	1
Manganese	1.3		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:17	1
Nickel	0.074		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:17	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 18:17	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:17	1
Zinc	0.54		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 18:17	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 20:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B06

Lab Sample ID: 500-61512-10

Date Collected: 08/20/13 10:40

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000020	mg/L	—	08/26/13 14:30	08/27/13 11:36	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.020	0.0095	mg/Kg	✱	08/23/13 13:30	08/26/13 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.33		0.200	0.200	SU	—		09/03/13 11:51	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B07

Lab Sample ID: 500-61512-11

Date Collected: 08/20/13 10:50

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 79.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.038		0.0048	0.0021	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
2-Butanone (MEK)	0.010	*	0.0048	0.0017	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00062	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00062	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
2-Hexanone	<0.0048	*	0.0048	0.0014	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
4-Methyl-2-pentanone (MIBK)	<0.0048	*	0.0048	0.0012	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Styrene	<0.0048		0.0048	0.00062	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	08/20/13 10:50	08/27/13 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	08/20/13 10:50	08/27/13 22:58	1
Dibromofluoromethane	101		75 - 120	08/20/13 10:50	08/27/13 22:58	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/20/13 10:50	08/27/13 22:58	1
Toluene-d8 (Surr)	105		75 - 122	08/20/13 10:50	08/27/13 22:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.065	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B07

Lab Sample ID: 500-61512-11

Date Collected: 08/20/13 10:50

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 79.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
2-Methylphenol	<0.21		0.21	0.054	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Naphthalene	0.0093	J	0.041	0.0079	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
4-Chloroaniline	<0.83		0.83	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Acenaphthylene	<0.041		0.041	0.0094	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Diethyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
N-Nitrosodiphenylamine	<0.21		0.21	0.055	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Phenanthrene	0.029	J	0.041	0.017	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Fluoranthene	0.047		0.041	0.017	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Pyrene	0.050		0.041	0.015	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Benzo[a]anthracene	0.069		0.041	0.0086	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B07

Lab Sample ID: 500-61512-11

Date Collected: 08/20/13 10:50

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 79.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.12		0.041	0.0093	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Benzo[b]fluoranthene	0.087		0.041	0.0080	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Benzo[k]fluoranthene	0.035 J		0.041	0.0098	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Benzo[a]pyrene	0.081		0.041	0.0075	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Indeno[1,2,3-cd]pyrene	0.021 J		0.041	0.014	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Dibenz(a,h)anthracene	0.031 J		0.041	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
Benzo[g,h,i]perylene	0.038 J		0.041	0.014	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	09/01/13 22:08	09/03/13 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		25 - 110	09/01/13 22:08	09/03/13 20:09	1
Phenol-d5	47		31 - 110	09/01/13 22:08	09/03/13 20:09	1
Nitrobenzene-d5	46		25 - 115	09/01/13 22:08	09/03/13 20:09	1
2-Fluorobiphenyl	62		25 - 119	09/01/13 22:08	09/03/13 20:09	1
2,4,6-Tribromophenol	66		35 - 137	09/01/13 22:08	09/03/13 20:09	1
Terphenyl-d14	76		36 - 134	09/01/13 22:08	09/03/13 20:09	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.040		0.040	0.016	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
alpha-BHC	<0.040		0.040	0.010	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
alpha-Chlordane	<0.040		0.040	0.020	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
beta-BHC	<0.040		0.040	0.012	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
4,4'-DDD	<0.040		0.040	0.0078	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
4,4'-DDE	<0.040		0.040	0.0065	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
4,4'-DDT	<0.040		0.040	0.021	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
delta-BHC	<0.040		0.040	0.012	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
Dieldrin	<0.040		0.040	0.0054	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
Endosulfan I	<0.040		0.040	0.017	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
Endosulfan II	<0.040		0.040	0.0064	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
Endosulfan sulfate	<0.040		0.040	0.0072	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
Endrin	<0.040		0.040	0.0054	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
Endrin aldehyde	<0.040		0.040	0.0066	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
Endrin ketone	<0.040		0.040	0.0089	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
gamma-BHC (Lindane)	<0.040		0.040	0.0085	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
gamma-Chlordane	<0.040		0.040	0.010	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
Heptachlor	<0.040		0.040	0.017	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
Heptachlor epoxide	<0.040		0.040	0.014	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
Methoxychlor	<0.20		0.20	0.0076	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20
Toxaphene	<0.39		0.39	0.17	mg/Kg	☼	09/03/13 07:23	09/04/13 15:59	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	D	56 - 128	09/03/13 07:23	09/04/13 15:59	20
Tetrachloro-m-xylene	0	D	45 - 112	09/03/13 07:23	09/04/13 15:59	20

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B07

Lab Sample ID: 500-61512-11

Date Collected: 08/20/13 10:50

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 79.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Arsenic	4.6		0.59	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Barium	95		0.59	0.063	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Beryllium	0.75		0.24	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Boron	4.7		3.0	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Cadmium	0.20		0.12	0.015	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Calcium	8500	B	12	3.2	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Chromium	19		0.59	0.069	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Cobalt	7.3	B	0.30	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Copper	22		0.59	0.052	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Iron	18000		12	4.9	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Lead	21	B	0.30	0.088	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Magnesium	7100	B	5.9	1.2	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Manganese	120	B	0.59	0.032	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Nickel	24	B	0.59	0.058	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Potassium	1700		30	1.8	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Selenium	1.1		0.59	0.21	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Sodium	1600	B	59	7.9	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Thallium	0.27	J	0.59	0.25	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Vanadium	18		0.30	0.044	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Zinc	60	B	1.2	0.24	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1
Aluminum	13000		12	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 04:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.53		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 08:12	1
Lead	0.011		0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 08:12	1
Manganese	3.3		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 08:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.87	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 18:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 18:21	1
Boron	0.71		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 18:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 18:21	1
Chromium	0.063		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:21	1
Cobalt	0.024	J	0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:21	1
Iron	75		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 18:21	1
Lead	0.085		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 18:21	1
Manganese	1.2		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:21	1
Nickel	0.067		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:21	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 18:21	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:21	1
Zinc	0.52		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 18:21	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 20:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 20:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B07

Lab Sample ID: 500-61512-11

Date Collected: 08/20/13 10:50

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00010	J	0.00020	0.000020	mg/L	—	08/26/13 14:30	08/27/13 11:38	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0085	mg/Kg	☼	08/23/13 13:30	08/26/13 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU	—		09/03/13 11:54	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B08

Lab Sample ID: 500-61512-12

Date Collected: 08/20/13 11:10

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 84.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.020		0.0046	0.0020	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
2-Butanone (MEK)	<0.0046 *		0.0046	0.0017	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
2-Hexanone	<0.0046 *		0.0046	0.0013	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
4-Methyl-2-pentanone (MIBK)	<0.0046 *		0.0046	0.0012	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	08/20/13 11:10	08/27/13 23:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/20/13 11:10	08/27/13 23:22	1
Dibromofluoromethane	100		75 - 120	08/20/13 11:10	08/27/13 23:22	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	08/20/13 11:10	08/27/13 23:22	1
Toluene-d8 (Surr)	102		75 - 122	08/20/13 11:10	08/27/13 23:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/01/13 22:08	09/03/13 20:25	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/01/13 22:08	09/03/13 20:25	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/01/13 22:08	09/03/13 20:25	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/01/13 22:08	09/03/13 20:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B08

Lab Sample ID: 500-61512-12

Date Collected: 08/20/13 11:10

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Isophorone	<0.19		0.19	0.042	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Carbazole	<0.19		0.19	0.053	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Pyrene	<0.037		0.037	0.014	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	*	09/01/13 22:08	09/03/13 20:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B08

Lab Sample ID: 500-61512-12

Date Collected: 08/20/13 11:10

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	09/01/13 22:08	09/03/13 20:25	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/01/13 22:08	09/03/13 20:25	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 20:25	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/01/13 22:08	09/03/13 20:25	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	09/01/13 22:08	09/03/13 20:25	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	09/01/13 22:08	09/03/13 20:25	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/01/13 22:08	09/03/13 20:25	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 20:25	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 20:25	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 20:25	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/01/13 22:08	09/03/13 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	39		25 - 110	09/01/13 22:08	09/03/13 20:25	1
Phenol-d5	41		31 - 110	09/01/13 22:08	09/03/13 20:25	1
Nitrobenzene-d5	40		25 - 115	09/01/13 22:08	09/03/13 20:25	1
2-Fluorobiphenyl	59		25 - 119	09/01/13 22:08	09/03/13 20:25	1
2,4,6-Tribromophenol	73		35 - 137	09/01/13 22:08	09/03/13 20:25	1
Terphenyl-d14	85		36 - 134	09/01/13 22:08	09/03/13 20:25	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
alpha-Chlordane	<0.0019		0.0019	0.00096	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
beta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
Endosulfan I	<0.0019		0.0019	0.00083	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
gamma-Chlordane	<0.0019		0.0019	0.00050	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
Heptachlor	<0.0019		0.0019	0.00079	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
Methoxychlor	<0.0094		0.0094	0.00037	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1
Toxaphene	<0.019		0.019	0.0080	mg/Kg	☼	09/03/13 07:23	09/04/13 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	110		56 - 128	09/03/13 07:23	09/04/13 16:18	1
Tetrachloro-m-xylene	104		45 - 112	09/03/13 07:23	09/04/13 16:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B08

Lab Sample ID: 500-61512-12

Date Collected: 08/20/13 11:10

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 84.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Arsenic	11		0.58	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Barium	44		0.58	0.062	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Beryllium	0.59		0.23	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Boron	9.3		2.9	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Cadmium	0.40		0.12	0.015	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Calcium	53000	B	12	3.2	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Chromium	14		0.58	0.068	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Cobalt	9.2	B	0.29	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Copper	25		0.58	0.052	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Iron	21000		12	4.8	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Lead	17	B	0.29	0.087	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Magnesium	30000	B	5.8	1.2	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Manganese	560	B	0.58	0.032	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Nickel	23	B	0.58	0.057	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Potassium	1700		29	1.8	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Selenium	0.69		0.58	0.21	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Sodium	1300	B	58	7.8	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Thallium	0.39	J	0.58	0.25	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Vanadium	19		0.29	0.043	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Zinc	53	B	1.2	0.24	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1
Aluminum	9000		12	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 04:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/13 09:30	09/12/13 08:17	1
Chromium	<0.025		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 08:17	1
Iron	<0.20		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 08:17	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 08:17	1
Manganese	6.2		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 08:17	1
Nickel	0.011	J	0.025	0.010	mg/L		09/11/13 09:30	09/12/13 08:17	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.88	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 18:25	1
Beryllium	0.0060		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 18:25	1
Boron	0.69		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 18:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 18:25	1
Chromium	0.13		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:25	1
Cobalt	0.073		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:25	1
Iron	160		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 18:25	1
Lead	0.14		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 18:25	1
Manganese	2.0		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:25	1
Nickel	0.18		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:25	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 18:25	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:25	1
Zinc	0.78		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 18:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Client Sample ID: 846D-81-B08

Lab Sample ID: 500-61512-12

Date Collected: 08/20/13 11:10

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 09:30	09/11/13 16:51	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 20:12	1
Thallium	0.0036		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 20:12	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00036		0.00020	0.000020	mg/L		08/26/13 14:30	08/27/13 11:40	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0092	mg/Kg	☼	08/23/13 13:30	08/26/13 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.34		0.200	0.200	SU			09/03/13 11:56	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-5

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>US6/IL7 Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: _____ Sampler: <u>KM MN</u>	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-6/5/2</u> Sample Temp: <u>36.39</u> Matrix Key: _____														
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																	
ANALYSES																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments	
5	846D-81-B01	8/20/13	9:50	S	X	X			X		X	X	X	X		0-4'	
6	846D-81-B02		9:35													0-4'	
7	846D-81-B03		10:05													0-4'	
8	846D-81-B04		10:15													0-4'	
9	846D-81-B05		10:25													0-4'	
10	846D-81-B06		10:40													0-4'	
11	846D-81-B07		10:50													0-4'	
12	846D-81-B08		11:10	S	X	X			X		X	X	X	X		0-4'	
Relinquished by: <u>Kenneth M. M... (AET)</u>					Date/Time	8/20/13	3:35	Received by: _____								Date/Time	8-20-13/1532
Relinquished by: _____					Date/Time	8-20-13/1620		Received by: <u>Richard Wright</u>								Date/Time	8/20/13 0630
Relinquished by: _____					Date/Time			Received by: _____								Date/Time	



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Approximately 13032 to 13162 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59992 Longitude: -87.93812
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)Latitude: 41.59992 Longitude: -87.93812Uncontaminated Site Certification**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-82-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-82. SEE FIGURE 15 AND TABLE 3bo OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61605-4

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246

Steven Gobelman

Printed Name:


Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date: 11/13/14

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-82

Aspen Valley Landscaping, Czimer Game Foods, Retention Ponds

Sample ID	846D-82-B01	846D-82-B01 DUP	846D-82-B02								
Sample Depth (ft)	0-6	0-6	0-6								
Sample Date	8/21/2013	8/21/2013	8/21/2013								
PID	0	0	0								
Sample pH	8.92	8.12	7.25								
Matrix	Soil	Soil	Soil								
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)pyrene	J 0.031	0.039	0.1	1.2	0.09	0.09	0.09	0.98	1.3	2.1	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61605-4
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/13/2013 10:35:47 AM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-4

Client Sample ID: 846D-82-B01

Lab Sample ID: 500-61605-12

Date Collected: 08/21/13 10:40

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 80.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0070		0.0044	0.0019	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Bromodichloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00072	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00080	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00061	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	08/21/13 10:40	08/27/13 04:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	08/21/13 10:40	08/27/13 04:19	1
Dibromofluoromethane	107		75 - 120	08/21/13 10:40	08/27/13 04:19	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/21/13 10:40	08/27/13 04:19	1
Toluene-d8 (Surr)	94		75 - 122	08/21/13 10:40	08/27/13 04:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-4

Client Sample ID: 846D-82-B01

Lab Sample ID: 500-61605-12

Date Collected: 08/21/13 10:40

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Pentachlorophenol	<0.82	*	0.82	0.21	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Fluoranthene	0.037	J	0.040	0.017	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Pyrene	0.043		0.040	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Benzo[a]anthracene	0.023	J	0.040	0.0085	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-4

Client Sample ID: 846D-82-B01

Lab Sample ID: 500-61605-12

Date Collected: 08/21/13 10:40

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.040		0.040	0.0091	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Benzo[b]fluoranthene	0.054		0.040	0.0079	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Benzo[k]fluoranthene	0.017 J		0.040	0.0097	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Benzo[a]pyrene	0.031 J		0.040	0.0074	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Indeno[1,2,3-cd]pyrene	0.028 J		0.040	0.014	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
Benzo[g,h,i]perylene	0.042		0.040	0.014	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	09/03/13 07:37	09/04/13 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	27		25 - 110	09/03/13 07:37	09/04/13 19:22	1
Phenol-d5	29	X	31 - 110	09/03/13 07:37	09/04/13 19:22	1
Nitrobenzene-d5	31		25 - 115	09/03/13 07:37	09/04/13 19:22	1
2-Fluorobiphenyl	39		25 - 119	09/03/13 07:37	09/04/13 19:22	1
2,4,6-Tribromophenol	65		35 - 137	09/03/13 07:37	09/04/13 19:22	1
Terphenyl-d14	56		36 - 134	09/03/13 07:37	09/04/13 19:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Arsenic	9.6		0.60	0.12	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Barium	50 B		0.60	0.064	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Beryllium	0.66		0.24	0.021	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Boron	6.6		3.0	0.13	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Cadmium	0.058 J B		0.12	0.015	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Calcium	34000 B		12	3.3	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Chromium	16		0.60	0.070	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Cobalt	11 B		0.30	0.022	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Copper	26		0.60	0.053	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Iron	28000		12	5.0	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Lead	16 B		0.30	0.090	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Magnesium	19000 B		6.0	1.2	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Manganese	270 B		0.60	0.033	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Nickel	29 B		0.60	0.059	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Potassium	1600 B		30	1.8	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Selenium	1.4		0.60	0.21	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Sodium	780 B		60	8.1	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Thallium	0.54 J		0.60	0.25	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Vanadium	20 B		0.30	0.045	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Zinc	55 B		1.2	0.24	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1
Aluminum	9200		12	1.1	mg/Kg	☼	08/22/13 16:00	09/12/13 06:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.32		0.20	0.20	mg/L		09/12/13 07:30	09/12/13 16:04	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/12/13 07:30	09/12/13 16:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-4

Client Sample ID: 846D-82-B01

Lab Sample ID: 500-61605-12

Date Collected: 08/21/13 10:40

Matrix: Solid

Date Received: 08/22/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.6		0.025	0.010	mg/L		09/12/13 07:30	09/12/13 16:04	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70	B	0.50	0.010	mg/L		08/28/13 10:00	09/09/13 23:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/09/13 23:23	1
Boron	1.1		0.10	0.050	mg/L		08/28/13 10:00	09/09/13 23:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/09/13 23:23	1
Chromium	0.023	J	0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:23	1
Cobalt	0.014	J	0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 23:23	1
Iron	29		0.20	0.20	mg/L		08/28/13 10:00	09/09/13 23:23	1
Lead	0.019		0.0075	0.0050	mg/L		08/28/13 10:00	09/09/13 23:23	1
Manganese	0.31		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:23	1
Nickel	0.028		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:23	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/09/13 23:23	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 23:23	1
Zinc	0.46		0.10	0.020	mg/L		08/28/13 10:00	09/09/13 23:23	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 19:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 19:44	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000023	J	0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 11:47	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.021	0.0098	mg/Kg	☼	08/26/13 13:30	08/27/13 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.92		0.200	0.200	SU			09/03/13 12:43	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-4

Client Sample ID: 846D-82-B01 Dup

Lab Sample ID: 500-61605-13

Date Collected: 08/21/13 10:45

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 79.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.033		0.0049	0.0021	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
2-Butanone (MEK)	0.0058		0.0049	0.0018	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00080	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1
Xylenes, Total	<0.0098		0.0098	0.00045	mg/Kg	☼	08/21/13 10:45	08/27/13 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	08/21/13 10:45	08/27/13 04:42	1
Dibromofluoromethane	106		75 - 120	08/21/13 10:45	08/27/13 04:42	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/21/13 10:45	08/27/13 04:42	1
Toluene-d8 (Surr)	100		75 - 122	08/21/13 10:45	08/27/13 04:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-4

Client Sample ID: 846D-82-B01 Dup

Lab Sample ID: 500-61605-13

Date Collected: 08/21/13 10:45

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 79.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Naphthalene	<0.039		0.039	0.0077	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Pentachlorophenol	<0.80	*	0.80	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Phenanthrene	0.019	J	0.039	0.017	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Fluoranthene	0.049		0.039	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Pyrene	0.045		0.039	0.014	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Benzo[a]anthracene	0.028	J	0.039	0.0083	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-4

Client Sample ID: 846D-82-B01 Dup

Lab Sample ID: 500-61605-13

Date Collected: 08/21/13 10:45

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 79.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.046		0.039	0.0090	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Benzo[b]fluoranthene	0.052		0.039	0.0077	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Benzo[k]fluoranthene	0.026 J		0.039	0.0095	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Benzo[a]pyrene	0.039		0.039	0.0072	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Indeno[1,2,3-cd]pyrene	0.034 J		0.039	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
Benzo[g,h,i]perylene	0.038 J		0.039	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	09/03/13 07:37	09/04/13 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	36		25 - 110	09/03/13 07:37	09/04/13 19:43	1
Phenol-d5	37		31 - 110	09/03/13 07:37	09/04/13 19:43	1
Nitrobenzene-d5	45		25 - 115	09/03/13 07:37	09/04/13 19:43	1
2-Fluorobiphenyl	47		25 - 119	09/03/13 07:37	09/04/13 19:43	1
2,4,6-Tribromophenol	68		35 - 137	09/03/13 07:37	09/04/13 19:43	1
Terphenyl-d14	60		36 - 134	09/03/13 07:37	09/04/13 19:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Arsenic	7.8		0.61	0.12	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Barium	42 B		0.61	0.065	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Beryllium	0.66		0.24	0.021	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Boron	8.9		3.0	0.13	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Cadmium	<0.12		0.12	0.015	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Calcium	44000 B		12	3.3	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Chromium	17		0.61	0.070	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Cobalt	10 B		0.30	0.022	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Copper	23		0.61	0.054	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Iron	22000		12	5.0	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Lead	12 B		0.30	0.090	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Magnesium	26000 B		6.1	1.3	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Manganese	270 B		0.61	0.033	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Nickel	26 B		0.61	0.060	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Potassium	2200 B		30	1.8	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Selenium	1.4		0.61	0.22	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Sodium	700 B		61	8.1	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Thallium	<0.61		0.61	0.26	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Vanadium	19 B		0.30	0.045	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Zinc	44 B		1.2	0.25	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1
Aluminum	9600		12	1.1	mg/Kg	☼	08/22/13 16:00	09/12/13 06:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/12/13 07:30	09/12/13 16:09	1
Chromium	<0.025		0.025	0.010	mg/L		09/12/13 07:30	09/12/13 16:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-4

Client Sample ID: 846D-82-B01 Dup

Lab Sample ID: 500-61605-13

Date Collected: 08/21/13 10:45

Matrix: Solid

Date Received: 08/22/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.56		0.20	0.20	mg/L		09/12/13 07:30	09/12/13 16:09	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/12/13 07:30	09/12/13 16:09	1
Manganese	1.5		0.025	0.010	mg/L		09/12/13 07:30	09/12/13 16:09	1
Nickel	<0.025	H	0.025	0.010	mg/L		09/12/13 07:30	09/12/13 16:09	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3	B	0.50	0.010	mg/L		08/28/13 10:00	09/09/13 23:30	1
Beryllium	0.0050		0.0040	0.0040	mg/L		08/28/13 10:00	09/09/13 23:30	1
Boron	1.7		0.10	0.050	mg/L		08/28/13 10:00	09/09/13 23:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/09/13 23:30	1
Chromium	0.11		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:30	1
Cobalt	0.043		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 23:30	1
Iron	110		0.20	0.20	mg/L		08/28/13 10:00	09/09/13 23:30	1
Lead	0.080		0.0075	0.0050	mg/L		08/28/13 10:00	09/09/13 23:30	1
Manganese	0.75		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:30	1
Nickel	0.10		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:30	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/09/13 23:30	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 23:30	1
Zinc	0.92		0.10	0.020	mg/L		08/28/13 10:00	09/09/13 23:30	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 19:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 19:47	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020		0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 11:49	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.020	0.0095	mg/Kg	☼	08/26/13 13:30	08/27/13 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12		0.200	0.200	SU			09/03/13 12:45	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-4

Client Sample ID: 846D-82-B02

Lab Sample ID: 500-61605-14

Date Collected: 08/21/13 10:25

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 73.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.074		0.0061	0.0027	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Benzene	<0.0061		0.0061	0.00084	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Bromodichloromethane	<0.0061		0.0061	0.0011	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Bromoform	<0.0061		0.0061	0.0014	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Bromomethane	<0.0061		0.0061	0.0019	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
2-Butanone (MEK)	<0.0061		0.0061	0.0022	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Carbon disulfide	<0.0061		0.0061	0.00092	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Carbon tetrachloride	<0.0061		0.0061	0.0011	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Chlorobenzene	<0.0061		0.0061	0.00062	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Chloroethane	<0.0061		0.0061	0.0017	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Chloroform	<0.0061		0.0061	0.00071	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Chloromethane	<0.0061		0.0061	0.0013	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
cis-1,2-Dichloroethene	<0.0061		0.0061	0.00087	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
cis-1,3-Dichloropropene	<0.0061		0.0061	0.00081	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Dibromochloromethane	<0.0061		0.0061	0.0011	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
1,1-Dichloroethane	<0.0061		0.0061	0.00097	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
1,2-Dichloroethane	<0.0061		0.0061	0.00091	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
1,1-Dichloroethene	<0.0061		0.0061	0.00099	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
1,2-Dichloropropane	<0.0061		0.0061	0.00093	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
1,3-Dichloropropene, Total	<0.0061		0.0061	0.00081	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Ethylbenzene	<0.0061		0.0061	0.0012	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
2-Hexanone	<0.0061		0.0061	0.0018	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Methylene Chloride	<0.0061		0.0061	0.0017	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
4-Methyl-2-pentanone (MIBK)	<0.0061		0.0061	0.0016	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Methyl tert-butyl ether	<0.0061		0.0061	0.0010	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Styrene	<0.0061		0.0061	0.00081	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
1,1,2,2-Tetrachloroethane	<0.0061		0.0061	0.0012	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Tetrachloroethene	<0.0061		0.0061	0.00094	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Toluene	<0.0061		0.0061	0.00086	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
trans-1,2-Dichloroethene	<0.0061		0.0061	0.00084	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
trans-1,3-Dichloropropene	<0.0061		0.0061	0.0011	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
1,1,1-Trichloroethane	<0.0061		0.0061	0.00092	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
1,1,2-Trichloroethane	<0.0061		0.0061	0.00084	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Trichloroethene	<0.0061		0.0061	0.0010	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Vinyl acetate	<0.0061		0.0061	0.00096	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Vinyl chloride	<0.0061		0.0061	0.0013	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1
Xylenes, Total	<0.012		0.012	0.00056	mg/Kg	☼	08/21/13 10:25	08/27/13 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/21/13 10:25	08/27/13 05:05	1
Dibromofluoromethane	103		75 - 120	08/21/13 10:25	08/27/13 05:05	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/21/13 10:25	08/27/13 05:05	1
Toluene-d8 (Surr)	97		75 - 122	08/21/13 10:25	08/27/13 05:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.23		0.23	0.071	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Bis(2-chloroethyl)ether	<0.23		0.23	0.067	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
1,3-Dichlorobenzene	<0.23		0.23	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
1,4-Dichlorobenzene	<0.23		0.23	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-4

Client Sample ID: 846D-82-B02

Lab Sample ID: 500-61605-14

Date Collected: 08/21/13 10:25

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 73.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.23		0.23	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
2-Methylphenol	<0.23		0.23	0.060	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
2,2'-oxybis[1-chloropropane]	<0.23		0.23	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
N-Nitrosodi-n-propylamine	<0.23		0.23	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Hexachloroethane	<0.23		0.23	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
2-Chlorophenol	<0.23		0.23	0.064	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Nitrobenzene	<0.045		0.045	0.014	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Bis(2-chloroethoxy)methane	<0.23		0.23	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
1,2,4-Trichlorobenzene	<0.23		0.23	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Isophorone	<0.23		0.23	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
2,4-Dimethylphenol	<0.45		0.45	0.14	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Hexachlorobutadiene	<0.23		0.23	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Naphthalene	<0.045		0.045	0.0087	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
2,4-Dichlorophenol	<0.45		0.45	0.14	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
4-Chloroaniline	<0.91		0.91	0.14	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
2,4,6-Trichlorophenol	<0.45		0.45	0.056	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
2,4,5-Trichlorophenol	<0.45		0.45	0.13	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Hexachlorocyclopentadiene	<0.91		0.91	0.21	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
2-Methylnaphthalene	<0.23		0.23	0.058	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
2-Nitroaniline	<0.23		0.23	0.081	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
2-Chloronaphthalene	<0.23		0.23	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
4-Chloro-3-methylphenol	<0.45		0.45	0.22	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
2,6-Dinitrotoluene	<0.23		0.23	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
2-Nitrophenol	<0.45		0.45	0.071	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
3-Nitroaniline	<0.45		0.45	0.087	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Dimethyl phthalate	<0.23		0.23	0.056	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
2,4-Dinitrophenol	<0.91		0.91	0.23	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Acenaphthylene	<0.045		0.045	0.010	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
2,4-Dinitrotoluene	<0.23		0.23	0.069	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Acenaphthene	<0.045		0.045	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Dibenzofuran	<0.23		0.23	0.054	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
4-Nitrophenol	<0.91		0.91	0.24	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Fluorene	<0.045		0.045	0.010	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
4-Nitroaniline	<0.45		0.45	0.092	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
4-Bromophenyl phenyl ether	<0.23		0.23	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Hexachlorobenzene	<0.091		0.091	0.0089	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Diethyl phthalate	<0.23		0.23	0.075	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
4-Chlorophenyl phenyl ether	<0.23		0.23	0.071	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Pentachlorophenol	<0.91	*	0.91	0.23	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
N-Nitrosodiphenylamine	<0.23		0.23	0.061	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
4,6-Dinitro-2-methylphenol	<0.45		0.45	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Phenanthrene	0.054		0.045	0.019	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Anthracene	<0.045		0.045	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Carbazole	<0.23		0.23	0.063	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Di-n-butyl phthalate	<0.23		0.23	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Fluoranthene	0.12		0.045	0.018	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Pyrene	0.097		0.045	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Butyl benzyl phthalate	<0.23		0.23	0.056	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Benzo[a]anthracene	0.086		0.045	0.0094	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-4

Client Sample ID: 846D-82-B02

Lab Sample ID: 500-61605-14

Date Collected: 08/21/13 10:25

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 73.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.12		0.045	0.010	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
3,3'-Dichlorobenzidine	<0.23		0.23	0.038	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Bis(2-ethylhexyl) phthalate	<0.23		0.23	0.060	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Di-n-octyl phthalate	<0.23		0.23	0.091	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Benzo[b]fluoranthene	0.12		0.045	0.0087	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Benzo[k]fluoranthene	0.050		0.045	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Benzo[a]pyrene	0.10		0.045	0.0082	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Indeno[1,2,3-cd]pyrene	0.068		0.045	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Dibenz(a,h)anthracene	0.042	J	0.045	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Benzo[g,h,i]perylene	0.098		0.045	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
3 & 4 Methylphenol	<0.23		0.23	0.085	mg/Kg	☼	09/03/13 07:37	09/04/13 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	34		25 - 110				09/03/13 07:37	09/04/13 20:05	1
Phenol-d5	39		31 - 110				09/03/13 07:37	09/04/13 20:05	1
Nitrobenzene-d5	41		25 - 115				09/03/13 07:37	09/04/13 20:05	1
2-Fluorobiphenyl	47		25 - 119				09/03/13 07:37	09/04/13 20:05	1
2,4,6-Tribromophenol	72		35 - 137				09/03/13 07:37	09/04/13 20:05	1
Terphenyl-d14	53		36 - 134				09/03/13 07:37	09/04/13 20:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.52	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Arsenic	5.6		0.65	0.13	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Barium	93	B	0.65	0.069	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Beryllium	0.63		0.26	0.023	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Boron	7.9		3.2	0.14	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Cadmium	0.13	B	0.13	0.016	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Calcium	11000	B	13	3.5	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Chromium	13		0.65	0.075	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Cobalt	6.7	B	0.32	0.023	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Copper	17		0.65	0.057	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Iron	14000		13	5.3	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Lead	16	B	0.32	0.096	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Magnesium	2900	B	6.5	1.3	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Manganese	340	B	0.65	0.035	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Nickel	15	B	0.65	0.063	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Potassium	1200	B	32	1.9	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Selenium	1.7		0.65	0.23	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Silver	0.048	J	0.32	0.023	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Sodium	2600	B	65	8.7	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Thallium	<0.65		0.65	0.27	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Vanadium	20	B	0.32	0.048	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Zinc	44	B	1.3	0.26	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1
Aluminum	10000		13	1.2	mg/Kg	☼	08/22/13 16:00	09/12/13 06:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.78	B	0.10	0.050	mg/L		09/12/13 07:30	09/12/13 16:14	1
Iron	0.38		0.20	0.20	mg/L		09/12/13 07:30	09/12/13 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-4

Client Sample ID: 846D-82-B02

Lab Sample ID: 500-61605-14

Date Collected: 08/21/13 10:25

Matrix: Solid

Date Received: 08/22/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0062	J	0.0075	0.0050	mg/L		09/12/13 07:30	09/12/13 16:14	1
Manganese	7.5		0.025	0.010	mg/L		09/12/13 07:30	09/12/13 16:14	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.6	B	0.50	0.010	mg/L		08/28/13 10:00	09/09/13 23:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/09/13 23:36	1
Boron	2.9		0.10	0.050	mg/L		08/28/13 10:00	09/09/13 23:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/09/13 23:36	1
Chromium	0.075		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:36	1
Cobalt	0.027		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 23:36	1
Iron	70		0.20	0.20	mg/L		08/28/13 10:00	09/09/13 23:36	1
Lead	0.053		0.0075	0.0050	mg/L		08/28/13 10:00	09/09/13 23:36	1
Manganese	0.77		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:36	1
Nickel	0.064		0.025	0.010	mg/L		08/28/13 10:00	09/09/13 23:36	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/09/13 23:36	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/09/13 23:36	1
Zinc	1.4		0.10	0.020	mg/L		08/28/13 10:00	09/09/13 23:36	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 20:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 20:06	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J	0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 11:51	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.064		0.022	0.010	mg/Kg	☼	08/26/13 13:30	08/27/13 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.25		0.200	0.200	SU			09/03/13 12:47	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-4

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13030 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59999 Longitude: -87.93610
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 1970430002 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59999 Longitude: -87.93610

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-83-B02 WAS SAMPLED ADJACENT TO SITE NO. 846D-83. SEE FIGURE 15 AND TABLE 3bp OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61605-5

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

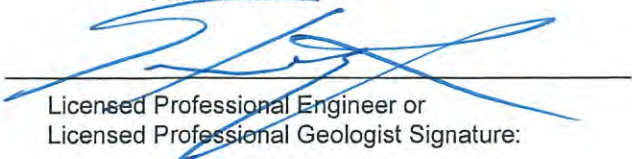
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14

Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-83

Dan/Ch Oriland Automotive

Sample ID	846D-83-B02	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5						
Sample Date	8/21/2013						
PID	0						
Sample pH	8.2						
Matrix	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61605-5
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/13/2013 4:34:49 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-5

Client Sample ID: 846D-83-B02

Lab Sample ID: 500-61605-16

Date Collected: 08/21/13 09:55

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 85.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0057		0.0057	0.0025	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Benzene	<0.0057		0.0057	0.00079	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Bromodichloromethane	<0.0057		0.0057	0.00099	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Bromoform	<0.0057		0.0057	0.0013	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Bromomethane	<0.0057		0.0057	0.0017	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
2-Butanone (MEK)	<0.0057		0.0057	0.0021	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Carbon disulfide	<0.0057		0.0057	0.00086	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Carbon tetrachloride	<0.0057		0.0057	0.0010	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Chlorobenzene	<0.0057		0.0057	0.00058	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Chloroethane	<0.0057		0.0057	0.0016	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Chloroform	<0.0057		0.0057	0.00066	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Chloromethane	<0.0057		0.0057	0.0012	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.00081	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.00075	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Dibromochloromethane	<0.0057		0.0057	0.0010	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
1,1-Dichloroethane	<0.0057		0.0057	0.00091	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
1,2-Dichloroethane	<0.0057		0.0057	0.00085	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
1,1-Dichloroethene	<0.0057		0.0057	0.00093	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
1,2-Dichloropropane	<0.0057		0.0057	0.00087	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
1,3-Dichloropropene, Total	<0.0057		0.0057	0.00075	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Ethylbenzene	<0.0057		0.0057	0.0012	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
2-Hexanone	<0.0057		0.0057	0.0017	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Methylene Chloride	<0.0057		0.0057	0.0016	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0015	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Methyl tert-butyl ether	<0.0057		0.0057	0.00095	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Styrene	<0.0057		0.0057	0.00075	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
1,1,2,2-Tetrachloroethane	<0.0057		0.0057	0.0012	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Tetrachloroethene	<0.0057		0.0057	0.00088	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Toluene	<0.0057		0.0057	0.00080	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.00079	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0010	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.00086	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.00078	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Trichloroethene	<0.0057		0.0057	0.00095	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Vinyl acetate	<0.0057		0.0057	0.00090	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Vinyl chloride	<0.0057		0.0057	0.0012	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1
Xylenes, Total	<0.011		0.011	0.00052	mg/Kg	☼	08/21/13 09:55	08/27/13 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	08/21/13 09:55	08/27/13 05:51	1
Dibromofluoromethane	106		75 - 120	08/21/13 09:55	08/27/13 05:51	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	08/21/13 09:55	08/27/13 05:51	1
Toluene-d8 (Surr)	96		75 - 122	08/21/13 09:55	08/27/13 05:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-5

Client Sample ID: 846D-83-B02

Lab Sample ID: 500-61605-16

Date Collected: 08/21/13 09:55

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Pentachlorophenol	<0.75	*	0.75	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Fluoranthene	0.033	J	0.037	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Pyrene	0.023	J	0.037	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Benzo[a]anthracene	0.021	J	0.037	0.0078	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-5

Client Sample ID: 846D-83-B02

Lab Sample ID: 500-61605-16

Date Collected: 08/21/13 09:55

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.032	J	0.037	0.0084	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Benzo[b]fluoranthene	0.034	J	0.037	0.0072	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Benzo[k]fluoranthene	0.022	J	0.037	0.0088	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Benzo[a]pyrene	0.027	J	0.037	0.0067	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Indeno[1,2,3-cd]pyrene	0.020	J	0.037	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
Benzo[g,h,i]perylene	0.025	J	0.037	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/03/13 07:37	09/04/13 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	41		25 - 110	09/03/13 07:37	09/04/13 20:46	1
Phenol-d5	49		31 - 110	09/03/13 07:37	09/04/13 20:46	1
Nitrobenzene-d5	49		25 - 115	09/03/13 07:37	09/04/13 20:46	1
2-Fluorobiphenyl	57		25 - 119	09/03/13 07:37	09/04/13 20:46	1
2,4,6-Tribromophenol	79		35 - 137	09/03/13 07:37	09/04/13 20:46	1
Terphenyl-d14	61		36 - 134	09/03/13 07:37	09/04/13 20:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Arsenic	8.0		0.56	0.11	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Barium	67	B	0.56	0.060	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Beryllium	0.59		0.22	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Boron	7.3		2.8	0.12	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Cadmium	0.14	B	0.11	0.014	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Calcium	53000	B	11	3.0	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Chromium	14		0.56	0.065	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Cobalt	8.4	B	0.28	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Copper	20		0.56	0.050	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Iron	18000		11	4.6	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Lead	21	B	0.28	0.083	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Magnesium	27000	B	5.6	1.2	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Manganese	430	B	0.56	0.030	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Nickel	20	B	0.56	0.055	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Potassium	1700	B	28	1.7	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Selenium	0.94		0.56	0.20	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Sodium	180	B	56	7.5	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Vanadium	20	B	0.28	0.041	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Zinc	50	B	1.1	0.23	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1
Aluminum	9400		11	1.0	mg/Kg	☼	08/22/13 16:00	09/12/13 07:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.2	B	0.10	0.050	mg/L		09/12/13 07:30	09/12/13 16:24	1
Iron	<0.20		0.20	0.20	mg/L		09/12/13 07:30	09/12/13 16:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-5

Client Sample ID: 846D-83-B02

Lab Sample ID: 500-61605-16

Date Collected: 08/21/13 09:55

Matrix: Solid

Date Received: 08/22/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		09/12/13 07:30	09/12/13 16:24	1
Manganese	0.87		0.025	0.010	mg/L		09/12/13 07:30	09/12/13 16:24	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3	B	0.50	0.010	mg/L		08/28/13 10:00	09/10/13 00:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/10/13 00:03	1
Boron	2.4		0.10	0.050	mg/L		08/28/13 10:00	09/10/13 00:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/10/13 00:03	1
Chromium	0.031		0.025	0.010	mg/L		08/28/13 10:00	09/10/13 00:03	1
Cobalt	0.0092	J	0.025	0.0050	mg/L		08/28/13 10:00	09/10/13 00:03	1
Iron	30		0.20	0.20	mg/L		08/28/13 10:00	09/10/13 00:03	1
Lead	0.027		0.0075	0.0050	mg/L		08/28/13 10:00	09/10/13 00:03	1
Manganese	0.16		0.025	0.010	mg/L		08/28/13 10:00	09/10/13 00:03	1
Nickel	0.028		0.025	0.010	mg/L		08/28/13 10:00	09/10/13 00:03	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/10/13 00:03	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/10/13 00:03	1
Zinc	1.1		0.10	0.020	mg/L		08/28/13 10:00	09/10/13 00:03	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 20:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 20:09	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000027	J	0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 11:55	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.018	0.0086	mg/Kg	☼	08/26/13 13:30	08/27/13 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.20		0.200	0.200	SU			09/03/13 12:54	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-5

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

13010 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59998 Longitude: -87.93508
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1970505001 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59998 Longitude: -87.93508

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATION 846D-84-B02 WAS SAMPLED ADJACENT TO SITE NO. 846D-84. SEE FIGURE 16 AND TABLE 3bq OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61605-6

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

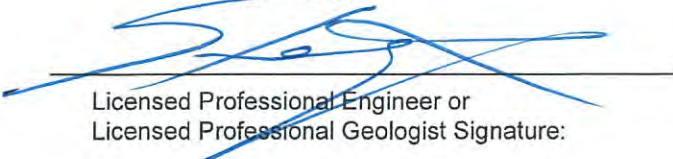
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/12/14
Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-84

Commercial Building

Sample ID	846D-84-B02									
Sample Depth (ft)	0-3									
Sample Date	8/21/2013									
PID	0									
Sample pH	8.12									
Matrix	Soil									
Inorganic Compounds, Total (mg/kg)										
Arsenic	12	1.3	1.3	11.3	NA	NA	11.3	NA	13	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61605-6
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/13/2013 10:36:19 AM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-6

Client Sample ID: 846D-84-B02

Lab Sample ID: 500-61605-18

Date Collected: 08/21/13 09:30

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015		0.0045	0.0019	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
1,1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	08/21/13 09:30	08/27/13 06:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	08/21/13 09:30	08/27/13 06:36	1
Dibromofluoromethane	105		75 - 120	08/21/13 09:30	08/27/13 06:36	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/21/13 09:30	08/27/13 06:36	1
Toluene-d8 (Surr)	95		75 - 122	08/21/13 09:30	08/27/13 06:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-6

Client Sample ID: 846D-84-B02

Lab Sample ID: 500-61605-18

Date Collected: 08/21/13 09:30

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Pentachlorophenol	<0.79	*	0.79	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Fluoranthene	0.017	J	0.039	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Pyrene	0.019	J	0.039	0.014	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Benzo[a]anthracene	0.021	J	0.039	0.0082	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-6

Client Sample ID: 846D-84-B02

Lab Sample ID: 500-61605-18

Date Collected: 08/21/13 09:30

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.027	J	0.039	0.0088	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Benzo[b]fluoranthene	0.025	J	0.039	0.0076	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Benzo[k]fluoranthene	0.020	J	0.039	0.0093	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Benzo[a]pyrene	0.025	J	0.039	0.0071	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.039	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Dibenz(a,h)anthracene	0.020	J	0.039	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
Benzo[g,h,i]perylene	0.026	J	0.039	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	09/03/13 07:37	09/04/13 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	44		25 - 110	09/03/13 07:37	09/04/13 20:55	1
Phenol-d5	49		31 - 110	09/03/13 07:37	09/04/13 20:55	1
Nitrobenzene-d5	46		25 - 115	09/03/13 07:37	09/04/13 20:55	1
2-Fluorobiphenyl	58		25 - 119	09/03/13 07:37	09/04/13 20:55	1
2,4,6-Tribromophenol	60		35 - 137	09/03/13 07:37	09/04/13 20:55	1
Terphenyl-d14	65		36 - 134	09/03/13 07:37	09/04/13 20:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Arsenic	12		0.58	0.11	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Barium	91	B	0.58	0.062	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Beryllium	0.77		0.23	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Boron	5.4		2.9	0.12	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Cadmium	<0.12		0.12	0.015	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Calcium	9000	B	12	3.1	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Chromium	17		0.58	0.067	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Cobalt	11	B	0.29	0.021	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Copper	29		0.58	0.051	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Iron	25000		12	4.7	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Lead	24	B	0.29	0.086	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Magnesium	7100	B	5.8	1.2	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Manganese	390	B	0.58	0.031	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Nickel	28	B	0.58	0.057	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Potassium	1400	B	29	1.7	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Selenium	1.3		0.58	0.21	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Sodium	1100	B	58	7.7	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Thallium	0.68		0.58	0.24	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Vanadium	23	B	0.29	0.043	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Zinc	59	B	1.2	0.23	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1
Aluminum	12000		12	1.1	mg/Kg	☼	08/22/13 16:00	09/12/13 07:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.92	B	0.10	0.050	mg/L		09/12/13 07:30	09/12/13 16:43	1
Iron	0.21		0.20	0.20	mg/L		09/12/13 07:30	09/12/13 16:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-6

Client Sample ID: 846D-84-B02

Lab Sample ID: 500-61605-18

Date Collected: 08/21/13 09:30

Matrix: Solid

Date Received: 08/22/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		09/12/13 07:30	09/12/13 16:43	1
Manganese	7.7		0.025	0.010	mg/L		09/12/13 07:30	09/12/13 16:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.5	B	0.50	0.010	mg/L		08/28/13 10:00	09/10/13 00:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/10/13 00:16	1
Boron	2.5		0.10	0.050	mg/L		08/28/13 10:00	09/10/13 00:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/10/13 00:16	1
Chromium	0.022	J	0.025	0.010	mg/L		08/28/13 10:00	09/10/13 00:16	1
Cobalt	0.011	J	0.025	0.0050	mg/L		08/28/13 10:00	09/10/13 00:16	1
Iron	16		0.20	0.20	mg/L		08/28/13 10:00	09/10/13 00:16	1
Lead	0.016		0.0075	0.0050	mg/L		08/28/13 10:00	09/10/13 00:16	1
Manganese	1.0		0.025	0.010	mg/L		08/28/13 10:00	09/10/13 00:16	1
Nickel	0.021	J	0.025	0.010	mg/L		08/28/13 10:00	09/10/13 00:16	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/10/13 00:16	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/10/13 00:16	1
Zinc	1.1		0.10	0.020	mg/L		08/28/13 10:00	09/10/13 00:16	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 20:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 20:17	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000021	J	0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 11:59	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.020	0.0094	mg/Kg	☼	08/26/13 13:30	08/27/13 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12		0.200	0.200	SU			09/03/13 12:58	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-6

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12902 to 12934 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60007 Longitude: -87.93339
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60007 Longitude: -87.93339

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-85-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-85. SEE FIGURE 16 AND TABLE 3br OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61512-6

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

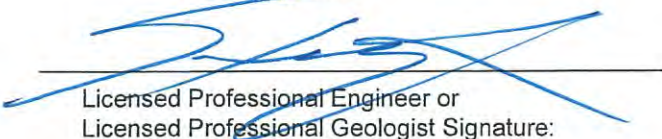
Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

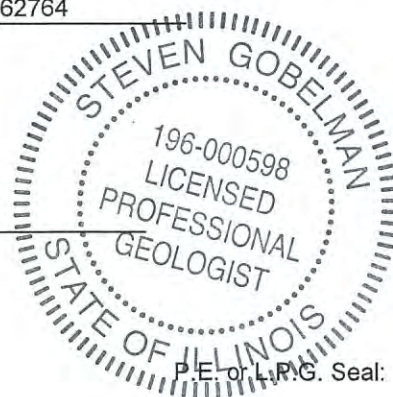
City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman
Printed Name:


Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/15/19
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-85

Homer Park Place Condominiums and Vacant Area

Sample ID	846D-85-B01	846D-85-B02
Sample Depth (ft)	0-8	0-8
Sample Date	8/20/2013	8/20/2013
PID	0	0
Sample pH	8.42	7.67
Matrix	Soil	Soil
¹ Most Stringent MAC		
² Outside a Populated Area MAC		
³ Populated non-Metropolitan Statistical Area MAC		
⁴ Within Chicago Corporate Limits MAC		
⁵ Metropolitan Statistical Area MAC		
⁶ Class I Soil TCLP/SPLP Comparisons Only		

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-61512-6

Client Project/Site: IDOT - Gougar Road - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/12/2013 2:25:23 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-6

Client Sample ID: 846D-85-B01

Lab Sample ID: 500-61512-13

Date Collected: 08/20/13 14:30

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0051		0.0042	0.0018	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
2-Butanone (MEK)	<0.0042 *		0.0042	0.0015	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
1,1-Dichloroethene	<0.0042		0.0042	0.00067	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
2-Hexanone	<0.0042 *		0.0042	0.0012	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
4-Methyl-2-pentanone (MIBK)	<0.0042 *		0.0042	0.0011	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	08/20/13 14:30	08/27/13 23:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/20/13 14:30	08/27/13 23:46	1
Dibromofluoromethane	96		75 - 120	08/20/13 14:30	08/27/13 23:46	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	08/20/13 14:30	08/27/13 23:46	1
Toluene-d8 (Surr)	102		75 - 122	08/20/13 14:30	08/27/13 23:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-6

Client Sample ID: 846D-85-B01

Lab Sample ID: 500-61512-13

Date Collected: 08/20/13 14:30

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Fluoranthene	0.031	J	0.038	0.016	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Pyrene	0.026	J	0.038	0.014	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Benzo[a]anthracene	0.011	J	0.038	0.0080	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-6

Client Sample ID: 846D-85-B01

Lab Sample ID: 500-61512-13

Date Collected: 08/20/13 14:30

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.038	0.0086	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Benzo[b]fluoranthene	0.029	J	0.038	0.0074	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Benzo[k]fluoranthene	0.015	J	0.038	0.0091	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Benzo[a]pyrene	0.016	J	0.038	0.0069	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	09/01/13 22:08	09/03/13 20:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	35		25 - 110				09/01/13 22:08	09/03/13 20:42	1
Phenol-d5	41		31 - 110				09/01/13 22:08	09/03/13 20:42	1
Nitrobenzene-d5	40		25 - 115				09/01/13 22:08	09/03/13 20:42	1
2-Fluorobiphenyl	54		25 - 119				09/01/13 22:08	09/03/13 20:42	1
2,4,6-Tribromophenol	56		35 - 137				09/01/13 22:08	09/03/13 20:42	1
Terphenyl-d14	92		36 - 134				09/01/13 22:08	09/03/13 20:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Arsenic	9.0		0.53	0.11	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Barium	35		0.53	0.057	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Beryllium	0.59		0.21	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Boron	9.2		2.7	0.11	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Cadmium	0.36		0.11	0.013	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Calcium	53000	B	11	2.9	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Chromium	15		0.53	0.062	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Cobalt	11	B	0.27	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Copper	22		0.53	0.047	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Iron	19000		11	4.4	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Lead	12	B	0.27	0.079	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Magnesium	25000	B	5.3	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Manganese	410	B	0.53	0.029	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Nickel	27	B	0.53	0.052	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Potassium	2000		27	1.6	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Selenium	0.71		0.53	0.19	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Sodium	240	B	53	7.1	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Thallium	0.49	J	0.53	0.22	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Vanadium	18		0.27	0.039	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Zinc	50	B	1.1	0.21	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1
Aluminum	8800		11	0.98	mg/Kg	☼	08/21/13 16:00	09/10/13 04:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 08:22	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 08:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-6

Client Sample ID: 846D-85-B01

Lab Sample ID: 500-61512-13

Date Collected: 08/20/13 14:30

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.63		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 08:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 18:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 18:38	1
Boron	0.73		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 18:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 18:38	1
Chromium	0.029		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:38	1
Cobalt	0.0074	J	0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:38	1
Iron	28		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 18:38	1
Lead	0.014		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 18:38	1
Manganese	0.18		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:38	1
Nickel	0.028		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:38	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 18:38	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:38	1
Zinc	0.43		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 18:38	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 20:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 20:15	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000036	J	0.00020	0.000020	mg/L		08/26/13 14:30	08/27/13 11:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0085	mg/Kg	☼	08/23/13 13:30	08/26/13 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.42		0.200	0.200	SU			09/03/13 11:58	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-6

Client Sample ID: 846D-85-B02

Lab Sample ID: 500-61512-14

Date Collected: 08/20/13 13:50

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 87.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014		0.0046	0.0020	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Benzene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
2-Butanone (MEK)	<0.0046 *		0.0046	0.0017	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Carbon tetrachloride	<0.0046		0.0046	0.00085	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Chloromethane	<0.0046		0.0046	0.00098	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Dibromochloromethane	<0.0046		0.0046	0.00081	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
1,1-Dichloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
1,2-Dichloropropane	<0.0046		0.0046	0.00071	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Ethylbenzene	<0.0046		0.0046	0.00094	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
2-Hexanone	<0.0046 *		0.0046	0.0013	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
4-Methyl-2-pentanone (MIBK)	<0.0046 *		0.0046	0.0012	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00077	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Trichloroethene	<0.0046		0.0046	0.00077	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Vinyl chloride	<0.0046		0.0046	0.00098	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	08/20/13 13:50	08/28/13 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	08/20/13 13:50	08/28/13 00:10	1
Dibromofluoromethane	99		75 - 120	08/20/13 13:50	08/28/13 00:10	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/20/13 13:50	08/28/13 00:10	1
Toluene-d8 (Surr)	104		75 - 122	08/20/13 13:50	08/28/13 00:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-6

Client Sample ID: 846D-85-B02

Lab Sample ID: 500-61512-14

Date Collected: 08/20/13 13:50

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 87.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-6

Client Sample ID: 846D-85-B02

Lab Sample ID: 500-61512-14

Date Collected: 08/20/13 13:50

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 87.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/01/13 22:08	09/03/13 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	35		25 - 110				09/01/13 22:08	09/03/13 20:58	1
Phenol-d5	36		31 - 110				09/01/13 22:08	09/03/13 20:58	1
Nitrobenzene-d5	37		25 - 115				09/01/13 22:08	09/03/13 20:58	1
2-Fluorobiphenyl	47		25 - 119				09/01/13 22:08	09/03/13 20:58	1
2,4,6-Tribromophenol	54		35 - 137				09/01/13 22:08	09/03/13 20:58	1
Terphenyl-d14	69		36 - 134				09/01/13 22:08	09/03/13 20:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Arsenic	10		0.52	0.10	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Barium	35		0.52	0.056	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Beryllium	0.57		0.21	0.018	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Boron	7.0		2.6	0.11	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Cadmium	0.33		0.10	0.013	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Calcium	35000	B	10	2.8	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Chromium	15		0.52	0.061	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Cobalt	12	B	0.26	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Copper	29		0.52	0.046	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Iron	22000		10	4.3	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Lead	16	B	0.26	0.078	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Magnesium	20000	B	5.2	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Manganese	410	B	0.52	0.028	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Nickel	29	B	0.52	0.051	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Potassium	1700		26	1.6	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Selenium	0.89		0.52	0.19	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Sodium	110	B	52	7.0	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Thallium	0.57		0.52	0.22	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Vanadium	17		0.26	0.039	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Zinc	56	B	1.0	0.21	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1
Aluminum	8800		10	0.96	mg/Kg	☼	08/21/13 16:00	09/10/13 05:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 08:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-6

Client Sample ID: 846D-85-B02

Lab Sample ID: 500-61512-14

Date Collected: 08/20/13 13:50

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 18:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 18:42	1
Boron	0.66		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 18:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 18:42	1
Chromium	0.010	J	0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:42	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:42	1
Iron	9.2		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 18:42	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 18:42	1
Manganese	0.042		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:42	1
Nickel	<0.025		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:42	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 18:42	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:42	1
Zinc	0.34		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 18:42	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 20:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 20:19	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000025	J	0.00020	0.000020	mg/L		08/26/13 14:30	08/27/13 11:43	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0087	mg/Kg	✱	08/23/13 13:30	08/26/13 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.67		0.200	0.200	SU			09/03/13 12:03	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-6

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12741 to 12931 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59985 Longitude: -87.93124
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)Latitude: 41.59985 Longitude: -87.93124Uncontaminated Site Certification**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-86-B01, -B04 AND -B05 WERE SAMPLED ADJACENT TO SITE NO. 846D-86. SEE FIGURES 16 & 17, AND TABLE 3bs OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-61359-2 AND 500-61512-7

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

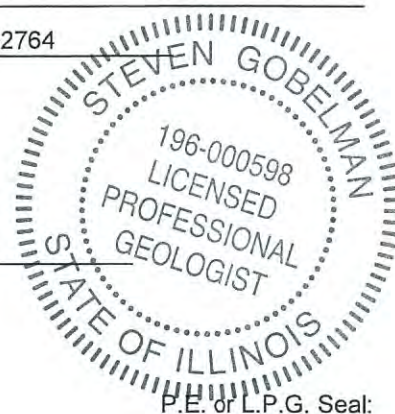
I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman

Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date: 11/15/17

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-86

Residence

Sample ID	846D-86-B01	846D-86-B04	846D-86-B05	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-3	0-3	0-3						
Sample Date	8/20/2013	8/16/2013	8/16/2013						
PID	0	0	0						
Sample pH	8.69	8.72	8.28						
Matrix	Soil	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61512-7
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/12/2013 3:09:08 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-7

Client Sample ID: 846D-86-B01

Lab Sample ID: 500-61512-15

Date Collected: 08/20/13 11:20

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 85.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
2-Butanone (MEK)	<0.0044 *		0.0044	0.0016	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
2-Hexanone	<0.0044 *		0.0044	0.0013	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
4-Methyl-2-pentanone (MIBK)	<0.0044 *		0.0044	0.0012	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	08/20/13 11:20	08/28/13 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	08/20/13 11:20	08/28/13 00:34	1
Dibromofluoromethane	99		75 - 120	08/20/13 11:20	08/28/13 00:34	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/20/13 11:20	08/28/13 00:34	1
Toluene-d8 (Surr)	107		75 - 122	08/20/13 11:20	08/28/13 00:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-7

Client Sample ID: 846D-86-B01

Lab Sample ID: 500-61512-15

Date Collected: 08/20/13 11:20

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Fluoranthene	0.017	J	0.037	0.015	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Pyrene	0.018	J	0.037	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Benzo[a]anthracene	0.017	J	0.037	0.0078	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-7

Client Sample ID: 846D-86-B01

Lab Sample ID: 500-61512-15

Date Collected: 08/20/13 11:20

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.027	J	0.037	0.0084	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Benzo[b]fluoranthene	0.024	J	0.037	0.0072	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Benzo[k]fluoranthene	0.010	J	0.037	0.0089	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Benzo[a]pyrene	0.020	J	0.037	0.0068	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	09/01/13 22:08	09/03/13 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	33		25 - 110				09/01/13 22:08	09/03/13 21:15	1
Phenol-d5	36		31 - 110				09/01/13 22:08	09/03/13 21:15	1
Nitrobenzene-d5	36		25 - 115				09/01/13 22:08	09/03/13 21:15	1
2-Fluorobiphenyl	50		25 - 119				09/01/13 22:08	09/03/13 21:15	1
2,4,6-Tribromophenol	48		35 - 137				09/01/13 22:08	09/03/13 21:15	1
Terphenyl-d14	77		36 - 134				09/01/13 22:08	09/03/13 21:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Arsenic	10		0.55	0.11	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Barium	43		0.55	0.059	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Beryllium	0.62		0.22	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Boron	6.4		2.8	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Cadmium	0.26		0.11	0.014	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Calcium	14000	B	11	3.0	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Chromium	15		0.55	0.064	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Cobalt	11	B	0.28	0.020	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Copper	27		0.55	0.049	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Iron	22000		11	4.5	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Lead	34	B	0.28	0.082	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Magnesium	10000	B	5.5	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Manganese	400	B	0.55	0.030	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Nickel	27	B	0.55	0.054	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Potassium	1300		28	1.7	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Selenium	1.3		0.55	0.20	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Sodium	1200	B	55	7.4	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Thallium	0.57		0.55	0.23	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Vanadium	19		0.28	0.041	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Zinc	69	B	1.1	0.22	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1
Aluminum	9600		11	1.0	mg/Kg	☼	08/21/13 16:00	09/10/13 05:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 08:32	1
Lead	0.019		0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 08:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-7

Client Sample ID: 846D-86-B01

Lab Sample ID: 500-61512-15

Date Collected: 08/20/13 11:20

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	7.4		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 08:32	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.84	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 18:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 18:58	1
Boron	1.2		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 18:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 18:58	1
Chromium	0.022	J	0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:58	1
Cobalt	0.0095	J	0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:58	1
Iron	20		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 18:58	1
Lead	0.071		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 18:58	1
Manganese	0.50		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:58	1
Nickel	0.024	J	0.025	0.010	mg/L		08/26/13 10:00	09/08/13 18:58	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 18:58	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 18:58	1
Zinc	0.60		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 18:58	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 20:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 20:41	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000045	J	0.00020	0.000020	mg/L		08/26/13 14:30	08/27/13 11:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.017	0.0081	mg/Kg	☼	08/23/13 13:30	08/26/13 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.69		0.200	0.200	SU			09/03/13 12:05	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-7

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>US6/IL7Will & Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other KM, MW Sampler: <u>Richard Wright</u>	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-6/5/2</u> Sample Temp.: <u>36.39</u> Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other								
ANALYSES											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
X	X					X	X	X	X		0-3'
X	X					X	X	X	X		0-3'
X	X					X	X	X	X		0-3'
X	X					X	X	X	X		0-3'
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X	X	X	X		
X	X					X					

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61359-2
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/12/2013 1:16:34 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-2

Client Sample ID: 846D-86-B04

Lab Sample ID: 500-61359-3

Date Collected: 08/16/13 08:50

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	08/16/13 08:50	08/20/13 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/16/13 08:50	08/20/13 18:32	1
Dibromofluoromethane	101		75 - 120	08/16/13 08:50	08/20/13 18:32	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/16/13 08:50	08/20/13 18:32	1
Toluene-d8 (Surr)	96		75 - 122	08/16/13 08:50	08/20/13 18:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-2

Client Sample ID: 846D-86-B04

Lab Sample ID: 500-61359-3

Date Collected: 08/16/13 08:50

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-2

Client Sample ID: 846D-86-B04

Lab Sample ID: 500-61359-3

Date Collected: 08/16/13 08:50

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/28/13 20:04	08/31/13 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	31		25 - 110				08/28/13 20:04	08/31/13 03:36	1
Phenol-d5	35		31 - 110				08/28/13 20:04	08/31/13 03:36	1
Nitrobenzene-d5	37		25 - 115				08/28/13 20:04	08/31/13 03:36	1
2-Fluorobiphenyl	40		25 - 119				08/28/13 20:04	08/31/13 03:36	1
2,4,6-Tribromophenol	38		35 - 137				08/28/13 20:04	08/31/13 03:36	1
Terphenyl-d14	90		36 - 134				08/28/13 20:04	08/31/13 03:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Arsenic	4.8		0.55	0.11	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Barium	58		0.55	0.059	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Beryllium	0.61		0.22	0.020	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Boron	4.9		2.8	0.12	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Cadmium	0.57		0.11	0.014	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Calcium	34000	B	11	3.0	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Chromium	17		0.55	0.064	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Cobalt	5.6		0.28	0.020	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Copper	19		0.55	0.049	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Iron	18000	B	11	4.5	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Lead	11		0.28	0.082	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Magnesium	18000	B	5.5	1.1	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Manganese	190	B	0.55	0.030	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Nickel	21	B	0.55	0.054	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Potassium	1500		28	1.7	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Selenium	0.22	J	0.55	0.20	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Sodium	1600		55	7.4	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Vanadium	17		0.28	0.041	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Zinc	48		1.1	0.22	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1
Aluminum	11000		11	1.0	mg/Kg	☼	08/20/13 16:00	08/30/13 03:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/13 07:45	09/12/13 02:50	1
Chromium	<0.025		0.025	0.010	mg/L		09/11/13 07:45	09/12/13 02:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-2

Client Sample ID: 846D-86-B04

Lab Sample ID: 500-61359-3

Date Collected: 08/16/13 08:50

Matrix: Solid

Date Received: 08/16/13 15:20

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 07:45	09/12/13 02:50	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 07:45	09/12/13 02:50	1
Manganese	0.76		0.025	0.010	mg/L		09/11/13 07:45	09/12/13 02:50	1
Nickel	<0.025		0.025	0.010	mg/L		09/11/13 07:45	09/12/13 02:50	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.91	B	0.50	0.010	mg/L		08/23/13 08:29	09/08/13 17:44	1
Beryllium	0.0071		0.0040	0.0040	mg/L		08/23/13 08:29	09/08/13 17:44	1
Boron	0.82		0.10	0.050	mg/L		08/23/13 08:29	09/08/13 17:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/23/13 08:29	09/08/13 17:44	1
Chromium	0.16		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 17:44	1
Cobalt	0.034		0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 17:44	1
Iron	150		0.20	0.20	mg/L		08/23/13 08:29	09/08/13 17:44	1
Lead	0.071		0.0075	0.0050	mg/L		08/23/13 08:29	09/08/13 17:44	1
Manganese	0.54		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 17:44	1
Nickel	0.15		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 17:44	1
Selenium	<0.050		0.050	0.010	mg/L		08/23/13 08:29	09/08/13 17:44	1
Silver	<0.025		0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 17:44	1
Zinc	0.74		0.10	0.020	mg/L		08/23/13 08:29	09/08/13 17:44	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 07:45	09/11/13 16:35	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/23/13 08:29	08/26/13 18:25	1
Thallium	0.0052		0.0020	0.0020	mg/L		08/23/13 08:29	08/26/13 18:25	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00026		0.00020	0.000020	mg/L		08/23/13 15:00	08/26/13 12:53	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0087	mg/Kg	☼	08/21/13 13:00	08/22/13 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.72		0.200	0.200	SU			08/29/13 17:13	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-2

Client Sample ID: 846D-86-B05

Lab Sample ID: 500-61359-4

Date Collected: 08/16/13 09:00

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0047	J	0.0048	0.0021	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00062	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00062	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0012	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Styrene	<0.0048		0.0048	0.00062	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	08/16/13 09:00	08/20/13 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	08/16/13 09:00	08/20/13 18:55	1
Dibromofluoromethane	100		75 - 120	08/16/13 09:00	08/20/13 18:55	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/16/13 09:00	08/20/13 18:55	1
Toluene-d8 (Surr)	92		75 - 122	08/16/13 09:00	08/20/13 18:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-2

Client Sample ID: 846D-86-B05

Lab Sample ID: 500-61359-4

Date Collected: 08/16/13 09:00

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-2

Client Sample ID: 846D-86-B05

Lab Sample ID: 500-61359-4

Date Collected: 08/16/13 09:00

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/28/13 20:04	08/31/13 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	25		25 - 110	08/28/13 20:04	08/31/13 03:53	1
Phenol-d5	25	X	31 - 110	08/28/13 20:04	08/31/13 03:53	1
Nitrobenzene-d5	28		25 - 115	08/28/13 20:04	08/31/13 03:53	1
2-Fluorobiphenyl	30		25 - 119	08/28/13 20:04	08/31/13 03:53	1
2,4,6-Tribromophenol	17	X	35 - 137	08/28/13 20:04	08/31/13 03:53	1
Terphenyl-d14	68		36 - 134	08/28/13 20:04	08/31/13 03:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Arsenic	7.4		0.57	0.11	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Barium	51		0.57	0.061	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Beryllium	0.55		0.23	0.020	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Boron	3.6		2.9	0.12	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Cadmium	0.48		0.11	0.015	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Calcium	31000	B	11	3.1	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Chromium	14		0.57	0.066	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Cobalt	5.6		0.29	0.020	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Copper	27		0.57	0.051	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Iron	19000	B	11	4.7	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Lead	11		0.29	0.085	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Magnesium	20000	B	5.7	1.2	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Manganese	210	B	0.57	0.031	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Nickel	17	B	0.57	0.056	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Potassium	1000		29	1.7	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Selenium	0.21	J	0.57	0.20	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Sodium	110		57	7.7	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Vanadium	17		0.29	0.042	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Zinc	49		1.1	0.23	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1
Aluminum	9400		11	1.1	mg/Kg	☼	08/20/13 16:00	08/30/13 03:42	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.51	B	0.50	0.010	mg/L		08/23/13 08:29	09/08/13 17:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/23/13 08:29	09/08/13 17:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-2

Client Sample ID: 846D-86-B05

Lab Sample ID: 500-61359-4

Date Collected: 08/16/13 09:00

Matrix: Solid

Date Received: 08/16/13 15:20

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.71		0.10	0.050	mg/L		08/23/13 08:29	09/08/13 17:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/23/13 08:29	09/08/13 17:51	1
Chromium	<0.025		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 17:51	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 17:51	1
Iron	2.8		0.20	0.20	mg/L		08/23/13 08:29	09/08/13 17:51	1
Lead	0.0060	J	0.0075	0.0050	mg/L		08/23/13 08:29	09/08/13 17:51	1
Manganese	0.073		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 17:51	1
Nickel	<0.025		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 17:51	1
Selenium	<0.050		0.050	0.010	mg/L		08/23/13 08:29	09/08/13 17:51	1
Silver	<0.025		0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 17:51	1
Zinc	0.34		0.10	0.020	mg/L		08/23/13 08:29	09/08/13 17:51	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/23/13 08:29	08/26/13 18:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/23/13 08:29	08/26/13 18:28	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/23/13 15:00	08/26/13 12:55	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0090	mg/Kg	☼	08/21/13 13:00	08/22/13 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28		0.200	0.200	SU			08/29/13 17:09	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: VS6/TL7 Willt Cook Co. Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other KM, #	COC No.: 1 of 1 Lab Job No.: 500-61359 Sample Temp:													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other														
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
3	846D-86-B04	8/16/13	8:50	S	X	X					X	X	X	X		0-3
4	846D-86-B05	8/16/13	9:00	S	X	X					X	X	X	X		0-3
Relinquished by: <i>[Signature]</i> Date/Time: 8/16/13 2:34 Received by: <i>[Signature]</i> Date/Time: 8/16/13 14:34 Relinquished by: <i>[Signature]</i> Date/Time: 8/16/13 15:20 Received by: <i>[Signature]</i> Date/Time: 8/16/13 15:20 Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____																



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15830 Bell Road

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60049 Longitude: -87.93026

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Additional BOL: 1970505110

IEPA Site Number(s), if assigned: _____ BOL: 1970505066 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)Latitude: 41.60049 Longitude: -87.93026Uncontaminated Site Certification**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-87-B01 THROUGH -B07 WERE SAMPLED ADJACENT TO SITE NO. 846D-87. SEE FIGURES 16, 17 & 25, AND TABLE 3bt OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-61265-1 AND 500-61512-8

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

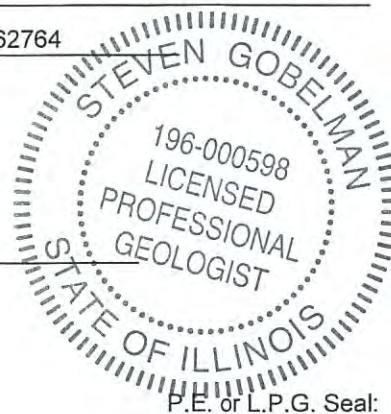
I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date: 11/13/14

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-87
Sears Essentials

Sample ID	846D-87-B01	846D-87-B02	846D-87-B03	846D-87-B04	846D-87-B05	846D-87-B06	846D-87-B07											
Sample Depth (ft)	0-8	0-8	0-8	0-8	0-8	0-8	0-8											
Sample Date	8/20/2013	8/20/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013											
PID	0	0	0	0	0	0	0											
Sample pH	8.52	8.45	7.86	7.67	8.34	7.64	8.08											
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil											
Inorganic Compounds, Total (mg/kg)																		
Arsenic	7.6	8.1	12	1.3	8.2	5.4	8.5	2.7	11.3	NA	11.3	NA	13	NA	NA	NA	NA	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61512-8
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/12/2013 1:37:28 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-8

Client Sample ID: 846D-87-B01

Lab Sample ID: 500-61512-19

Date Collected: 08/20/13 13:25

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
2-Butanone (MEK)	<0.0045 *		0.0045	0.0016	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
2-Hexanone	<0.0045 *		0.0045	0.0013	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
4-Methyl-2-pentanone (MIBK)	<0.0045 *		0.0045	0.0012	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	08/20/13 13:25	08/28/13 02:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	08/20/13 13:25	08/28/13 02:08	1
Dibromofluoromethane	106		75 - 120	08/20/13 13:25	08/28/13 02:08	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/20/13 13:25	08/28/13 02:08	1
Toluene-d8 (Surr)	108		75 - 122	08/20/13 13:25	08/28/13 02:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-8

Client Sample ID: 846D-87-B01

Lab Sample ID: 500-61512-19

Date Collected: 08/20/13 13:25

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-8

Client Sample ID: 846D-87-B01

Lab Sample ID: 500-61512-19

Date Collected: 08/20/13 13:25

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	09/01/13 22:08	09/03/13 22:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		25 - 110	09/01/13 22:08	09/03/13 22:20	1
Phenol-d5	43		31 - 110	09/01/13 22:08	09/03/13 22:20	1
Nitrobenzene-d5	44		25 - 115	09/01/13 22:08	09/03/13 22:20	1
2-Fluorobiphenyl	55		25 - 119	09/01/13 22:08	09/03/13 22:20	1
2,4,6-Tribromophenol	50		35 - 137	09/01/13 22:08	09/03/13 22:20	1
Terphenyl-d14	71		36 - 134	09/01/13 22:08	09/03/13 22:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Arsenic	7.6		0.59	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Barium	82		0.59	0.063	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Beryllium	0.69		0.24	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Boron	3.9		2.9	0.12	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Cadmium	0.20		0.12	0.015	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Calcium	11000	B	12	3.2	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Chromium	15		0.59	0.068	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Cobalt	8.9	B	0.29	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Copper	22		0.59	0.052	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Iron	18000		12	4.8	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Lead	19	B	0.29	0.088	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Magnesium	7000	B	5.9	1.2	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Manganese	520	B	0.59	0.032	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Nickel	19	B	0.59	0.058	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Potassium	1300		29	1.8	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Selenium	1.2		0.59	0.21	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Sodium	300	B	59	7.9	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Thallium	<0.59		0.59	0.25	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Vanadium	22		0.29	0.043	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Zinc	54	B	1.2	0.24	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1
Aluminum	10000		12	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 05:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 09:01	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 09:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-8

Client Sample ID: 846D-87-B01

Lab Sample ID: 500-61512-19

Date Collected: 08/20/13 13:25

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.16		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 09:01	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 19:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 19:15	1
Boron	1.1		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 19:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 19:15	1
Chromium	0.054		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 19:15	1
Cobalt	0.0095	J	0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 19:15	1
Iron	53		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 19:15	1
Lead	0.026		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 19:15	1
Manganese	0.19		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 19:15	1
Nickel	0.045		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 19:15	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 19:15	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 19:15	1
Zinc	0.68		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 19:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 20:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 20:56	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000081	J	0.00020	0.000020	mg/L		08/26/13 14:30	08/27/13 11:57	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.018	0.0082	mg/Kg	☼	08/23/13 13:30	08/26/13 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.52		0.200	0.200	SU			09/03/13 12:14	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-8

Client Sample ID: 846D-87-B02

Lab Sample ID: 500-61512-20

Date Collected: 08/20/13 13:15

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 87.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014		0.0041	0.0018	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
2-Butanone (MEK)	<0.0041	*	0.0041	0.0015	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00053	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
1,1-Dichloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00053	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Ethylbenzene	<0.0041		0.0041	0.00082	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
2-Hexanone	<0.0041	*	0.0041	0.0012	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
4-Methyl-2-pentanone (MIBK)	<0.0041	*	0.0041	0.0011	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00067	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Styrene	<0.0041		0.0041	0.00053	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00082	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	08/20/13 13:15	08/28/13 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	08/20/13 13:15	08/28/13 02:32	1
Dibromofluoromethane	104		75 - 120	08/20/13 13:15	08/28/13 02:32	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/20/13 13:15	08/28/13 02:32	1
Toluene-d8 (Surr)	109		75 - 122	08/20/13 13:15	08/28/13 02:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-8

Client Sample ID: 846D-87-B02

Lab Sample ID: 500-61512-20

Date Collected: 08/20/13 13:15

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Acenaphthylene	<0.037		0.037	0.0087	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Anthracene	<0.037		0.037	0.0089	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-8

Client Sample ID: 846D-87-B02

Lab Sample ID: 500-61512-20

Date Collected: 08/20/13 13:15

Matrix: Solid

Date Received: 08/21/13 06:30

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Benzo[a]pyrene	<0.037		0.037	0.0069	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/01/13 22:08	09/03/13 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		25 - 110	09/01/13 22:08	09/03/13 22:37	1
Phenol-d5	42		31 - 110	09/01/13 22:08	09/03/13 22:37	1
Nitrobenzene-d5	45		25 - 115	09/01/13 22:08	09/03/13 22:37	1
2-Fluorobiphenyl	54		25 - 119	09/01/13 22:08	09/03/13 22:37	1
2,4,6-Tribromophenol	49		35 - 137	09/01/13 22:08	09/03/13 22:37	1
Terphenyl-d14	71		36 - 134	09/01/13 22:08	09/03/13 22:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Arsenic	8.1		0.53	0.11	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Barium	34		0.53	0.057	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Beryllium	0.59		0.21	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Boron	10		2.7	0.11	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Cadmium	0.23		0.11	0.013	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Calcium	41000	B	11	2.9	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Chromium	15		0.53	0.062	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Cobalt	8.8	B	0.27	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Copper	25		0.53	0.047	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Iron	20000		11	4.4	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Lead	13	B	0.27	0.079	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Magnesium	22000	B	5.3	1.1	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Manganese	390	B	0.53	0.029	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Nickel	28	B	0.53	0.052	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Potassium	2200		27	1.6	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Selenium	0.84		0.53	0.19	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Sodium	290	B	53	7.1	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Thallium	0.32	J	0.53	0.22	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Vanadium	17		0.27	0.039	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Zinc	49	B	1.1	0.21	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1
Aluminum	8900		11	0.98	mg/Kg	☼	08/21/13 16:00	09/10/13 05:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/13 09:30	09/12/13 09:06	1
Iron	<0.20		0.20	0.20	mg/L		09/11/13 09:30	09/12/13 09:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-8

Client Sample ID: 846D-87-B02

Lab Sample ID: 500-61512-20

Date Collected: 08/20/13 13:15

Matrix: Solid

Date Received: 08/21/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0053	J	0.0075	0.0050	mg/L		09/11/13 09:30	09/12/13 09:06	1
Manganese	0.53		0.025	0.010	mg/L		09/11/13 09:30	09/12/13 09:06	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.94	B	0.50	0.010	mg/L		08/26/13 10:00	09/08/13 19:27	1
Beryllium	0.0046		0.0040	0.0040	mg/L		08/26/13 10:00	09/08/13 19:27	1
Boron	1.1		0.10	0.050	mg/L		08/26/13 10:00	09/08/13 19:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/13 10:00	09/08/13 19:27	1
Chromium	0.096		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 19:27	1
Cobalt	0.022	J	0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 19:27	1
Iron	89		0.20	0.20	mg/L		08/26/13 10:00	09/08/13 19:27	1
Lead	0.044		0.0075	0.0050	mg/L		08/26/13 10:00	09/08/13 19:27	1
Manganese	0.37		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 19:27	1
Nickel	0.095		0.025	0.010	mg/L		08/26/13 10:00	09/08/13 19:27	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/13 10:00	09/08/13 19:27	1
Silver	<0.025		0.025	0.0050	mg/L		08/26/13 10:00	09/08/13 19:27	1
Zinc	0.71		0.10	0.020	mg/L		08/26/13 10:00	09/08/13 19:27	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/26/13 10:00	08/26/13 21:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/13 10:00	08/26/13 21:00	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00015	J	0.00020	0.000020	mg/L		08/26/13 14:30	08/27/13 11:59	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.018	0.0082	mg/Kg	☼	08/23/13 13:30	08/26/13 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.45		0.200	0.200	SU			09/03/13 12:16	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61512-8

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>US6 / IL7 Wilbur-Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: <u>KM MN</u> Sampler: _____	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-6/15/12</u> Sample Temp.: <u>3.6, 3.9</u> Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other									
ANALYSES												
	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix								
13	846D-85-B01	8/20/13	2:30	S								
14	846D-85-B02	8/20/13	1:50	S	X	X	X	X	X	X	X	X
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.												
Relinquished by: <u>Rain A. Myer (AEI)</u> Relinquished by: <u>[Signature]</u> Relinquished by: _____	Date/Time <u>8/20/13 3:35</u> <u>8/20/13/1620</u> _____	Received by: <u>[Signature]</u> Received by: <u>AMM in shorts</u> Received by: _____	Date/Time <u>8-20-13/1535</u> <u>8/21/13 0630</u> _____									



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7Will & Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other <i>KM, MW</i> Sampler:	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-6/5/2</u> Sample Temp: <u>3.6, 3.9</u> Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
15	846D-86-B01	8/20/13	11:20	S	X	X					X	X	X	X		0-3'
16	846D-86-B02		11:30	S	X	X					X	X	X	X		0-3'
17	846D-86-B02 DUP		11:35	S	X	X					X	X	X	X		0-3'
18	846D-86-B03		12:00	S	X	X					X	X	X	X		0-3'
	846D-86-B04			S	X	X					X	X	X	X		
	846D-86-B05			S	X	X					X	X	X	X		
Relinquished by: <i>Rich Wright (ASZ)</i>					Date/Time	Received by: <i>[Signature]</i>					Date/Time	8/20/13 3:35				
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>					Date/Time	8/20/13 16:20				
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>					Date/Time	8/21/13 06:30				

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-61265-1

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/12/2013 12:58:43 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B03

Lab Sample ID: 500-61265-1

Date Collected: 08/15/13 11:50

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011		0.0036	0.0015	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Benzene	<0.0036		0.0036	0.00049	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Bromodichloromethane	<0.0036		0.0036	0.00062	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Bromoform	<0.0036		0.0036	0.00082	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Bromomethane	<0.0036		0.0036	0.0011	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
2-Butanone (MEK)	<0.0036		0.0036	0.0013	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Carbon disulfide	<0.0036		0.0036	0.00053	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Carbon tetrachloride	<0.0036		0.0036	0.00065	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Chlorobenzene	<0.0036		0.0036	0.00036	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Chloroethane	<0.0036		0.0036	0.00097	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Chloroform	<0.0036		0.0036	0.00041	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Chloromethane	<0.0036		0.0036	0.00075	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
cis-1,2-Dichloroethene	<0.0036		0.0036	0.00051	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
cis-1,3-Dichloropropene	<0.0036		0.0036	0.00047	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Dibromochloromethane	<0.0036		0.0036	0.00062	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
1,1-Dichloroethane	<0.0036		0.0036	0.00057	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
1,2-Dichloroethane	<0.0036		0.0036	0.00053	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
1,1-Dichloroethene	<0.0036		0.0036	0.00058	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
1,2-Dichloropropane	<0.0036		0.0036	0.00054	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
1,3-Dichloropropene, Total	<0.0036		0.0036	0.00047	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Ethylbenzene	<0.0036		0.0036	0.00072	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
2-Hexanone	<0.0036		0.0036	0.0010	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Methylene Chloride	<0.0036		0.0036	0.00097	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.00094	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Methyl tert-butyl ether	<0.0036		0.0036	0.00059	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Styrene	<0.0036		0.0036	0.00047	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
1,1,1,2-Tetrachloroethane	<0.0036		0.0036	0.00072	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Tetrachloroethene	<0.0036		0.0036	0.00055	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Toluene	<0.0036		0.0036	0.00050	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
trans-1,2-Dichloroethene	<0.0036		0.0036	0.00049	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
trans-1,3-Dichloropropene	<0.0036		0.0036	0.00064	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
1,1,1-Trichloroethane	<0.0036		0.0036	0.00053	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
1,1,2-Trichloroethane	<0.0036		0.0036	0.00049	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Trichloroethene	<0.0036		0.0036	0.00059	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Vinyl acetate	<0.0036		0.0036	0.00056	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Vinyl chloride	<0.0036		0.0036	0.00075	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1
Xylenes, Total	<0.0072		0.0072	0.00032	mg/Kg	☼	08/15/13 11:50	08/21/13 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	08/15/13 11:50	08/21/13 12:22	1
Dibromofluoromethane	102		75 - 120	08/15/13 11:50	08/21/13 12:22	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/15/13 11:50	08/21/13 12:22	1
Toluene-d8 (Surr)	96		75 - 122	08/15/13 11:50	08/21/13 12:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B03

Lab Sample ID: 500-61265-1

Date Collected: 08/15/13 11:50

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Acenaphthylene	<0.036		0.036	0.0082	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Fluorene	<0.036		0.036	0.0081	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
4-Nitroaniline	<0.36		0.36	0.073	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Hexachlorobenzene	<0.072		0.072	0.0071	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Anthracene	<0.036		0.036	0.0084	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Benzo[a]anthracene	<0.036		0.036	0.0075	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B03

Lab Sample ID: 500-61265-1

Date Collected: 08/15/13 11:50

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.036	0.0081	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Benzo[k]fluoranthene	<0.036		0.036	0.0085	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Benzo[a]pyrene	<0.036		0.036	0.0065	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	08/26/13 07:24	08/29/13 21:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		30 - 110				08/26/13 07:24	08/29/13 21:36	1
Phenol-d5	71		31 - 110				08/26/13 07:24	08/29/13 21:36	1
Nitrobenzene-d5	71		30 - 115				08/26/13 07:24	08/29/13 21:36	1
2-Fluorobiphenyl	79		30 - 119				08/26/13 07:24	08/29/13 21:36	1
2,4,6-Tribromophenol	76		35 - 137				08/26/13 07:24	08/29/13 21:36	1
Terphenyl-d14	87		36 - 134				08/26/13 07:24	08/29/13 21:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.42	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Arsenic	12		0.53	0.10	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Barium	28		0.53	0.056	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Beryllium	0.54		0.21	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Boron	8.7		2.6	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Cadmium	0.23		0.11	0.013	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Calcium	44000	B	11	2.9	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Chromium	14		0.53	0.061	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Cobalt	12	B	0.26	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Copper	29		0.53	0.047	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Iron	21000		11	4.3	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Lead	13	B	0.26	0.078	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Magnesium	25000	B	5.3	1.1	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Manganese	370	B	0.53	0.029	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Nickel	27		0.53	0.052	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Potassium	1900		26	1.6	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Sodium	390		53	7.0	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Thallium	0.71		0.53	0.22	mg/Kg	☼	08/16/13 08:00	09/10/13 05:28	1
Vanadium	16		0.26	0.039	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Zinc	56		1.1	0.21	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1
Aluminum	7800	B	11	0.97	mg/Kg	☼	08/16/13 08:00	09/09/13 01:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/13 08:45	09/12/13 04:24	1
Iron	<0.20		0.20	0.20	mg/L		09/11/13 08:45	09/12/13 04:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B03

Lab Sample ID: 500-61265-1

Date Collected: 08/15/13 11:50

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 08:45	09/12/13 04:24	1
Manganese	0.74		0.025	0.010	mg/L		09/11/13 08:45	09/12/13 04:24	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.83	B	0.50	0.010	mg/L		08/22/13 09:10	09/08/13 21:23	1
Beryllium	0.0045		0.0040	0.0040	mg/L		08/22/13 09:10	09/08/13 21:23	1
Boron	1.2		0.10	0.050	mg/L		08/22/13 09:10	09/08/13 21:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/08/13 21:23	1
Chromium	0.086		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 21:23	1
Cobalt	0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 21:23	1
Iron	87		0.20	0.20	mg/L		08/22/13 09:10	09/08/13 21:23	1
Lead	0.039		0.0075	0.0050	mg/L		08/22/13 09:10	09/08/13 21:23	1
Manganese	0.36		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 21:23	1
Nickel	0.098		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 21:23	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/08/13 21:23	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 21:23	1
Zinc	0.70	B	0.10	0.020	mg/L		08/22/13 09:10	09/08/13 21:23	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 08:45	09/11/13 16:24	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0035	J B	0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 17:21	1
Thallium	0.0028		0.0020	0.0020	mg/L		08/22/13 09:10	08/26/13 14:31	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 11:32	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0087	mg/Kg	☼	08/20/13 13:30	08/21/13 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86		0.200	0.200	SU			08/29/13 01:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B04

Lab Sample ID: 500-61265-2

Date Collected: 08/15/13 11:40

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 89.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0030	J	0.0037	0.0016	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Benzene	<0.0037		0.0037	0.00050	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Bromodichloromethane	<0.0037		0.0037	0.00063	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Bromoform	<0.0037		0.0037	0.00085	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Bromomethane	<0.0037		0.0037	0.0011	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Carbon disulfide	<0.0037		0.0037	0.00055	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Carbon tetrachloride	<0.0037		0.0037	0.00067	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Chlorobenzene	<0.0037		0.0037	0.00037	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Chloroethane	<0.0037		0.0037	0.0010	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Chloroform	<0.0037		0.0037	0.00042	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Chloromethane	<0.0037		0.0037	0.00077	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00052	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00048	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Dibromochloromethane	<0.0037		0.0037	0.00064	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
1,1-Dichloroethane	<0.0037		0.0037	0.00058	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
1,1-Dichloroethene	<0.0037		0.0037	0.00059	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
1,2-Dichloropropane	<0.0037		0.0037	0.00056	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.00048	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Ethylbenzene	<0.0037		0.0037	0.00074	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Methylene Chloride	<0.0037		0.0037	0.00099	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00096	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00061	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Styrene	<0.0037		0.0037	0.00048	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
1,1,1,2-Tetrachloroethane	<0.0037		0.0037	0.00074	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Tetrachloroethene	<0.0037		0.0037	0.00056	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Toluene	<0.0037		0.0037	0.00052	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00051	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.00066	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00050	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Trichloroethene	<0.0037		0.0037	0.00061	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Vinyl acetate	<0.0037		0.0037	0.00058	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Vinyl chloride	<0.0037		0.0037	0.00077	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1
Xylenes, Total	<0.0074		0.0074	0.00033	mg/Kg	☼	08/15/13 11:40	08/21/13 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/15/13 11:40	08/21/13 12:45	1
Dibromofluoromethane	105		75 - 120	08/15/13 11:40	08/21/13 12:45	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/15/13 11:40	08/21/13 12:45	1
Toluene-d8 (Surr)	94		75 - 122	08/15/13 11:40	08/21/13 12:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B04

Lab Sample ID: 500-61265-2

Date Collected: 08/15/13 11:40

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 89.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Acenaphthylene	<0.036		0.036	0.0082	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Fluorene	<0.036		0.036	0.0081	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
4-Nitroaniline	<0.36		0.36	0.073	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Anthracene	<0.036		0.036	0.0084	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Benzo[a]anthracene	<0.036		0.036	0.0075	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B04

Lab Sample ID: 500-61265-2

Date Collected: 08/15/13 11:40

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 89.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0081	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Benzo[b]fluoranthene	<0.036		0.036	0.0069	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Benzo[k]fluoranthene	<0.036		0.036	0.0085	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Benzo[a]pyrene	<0.036		0.036	0.0065	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	08/26/13 07:24	08/29/13 21:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		25 - 110	08/26/13 07:24	08/29/13 21:54	1
Phenol-d5	62		31 - 110	08/26/13 07:24	08/29/13 21:54	1
Nitrobenzene-d5	65		25 - 115	08/26/13 07:24	08/29/13 21:54	1
2-Fluorobiphenyl	71		25 - 119	08/26/13 07:24	08/29/13 21:54	1
2,4,6-Tribromophenol	70		35 - 137	08/26/13 07:24	08/29/13 21:54	1
Terphenyl-d14	76		36 - 134	08/26/13 07:24	08/29/13 21:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Arsenic	8.2		0.56	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Barium	32		0.56	0.060	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Beryllium	0.57		0.22	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Boron	10		2.8	0.12	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Cadmium	0.12		0.11	0.014	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Calcium	46000	B	11	3.0	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Chromium	15		0.56	0.065	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Cobalt	7.8	B	0.28	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Copper	21		0.56	0.050	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Iron	20000		11	4.6	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Lead	12	B	0.28	0.083	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Magnesium	28000	B	5.6	1.1	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Manganese	390	B	0.56	0.030	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Nickel	19		0.56	0.055	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Potassium	2100		28	1.7	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Sodium	400		56	7.5	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Thallium	0.89		0.56	0.24	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Vanadium	18		0.28	0.041	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Zinc	51		1.1	0.23	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1
Aluminum	8800	B	11	1.0	mg/Kg	☼	08/16/13 08:00	09/09/13 02:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.29		0.20	0.20	mg/L		09/11/13 08:45	09/12/13 04:45	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 08:45	09/12/13 04:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B04

Lab Sample ID: 500-61265-2

Date Collected: 08/15/13 11:40

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.69	B	0.50	0.010	mg/L		08/22/13 09:10	09/08/13 21:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/22/13 09:10	09/08/13 21:29	1
Boron	0.98		0.10	0.050	mg/L		08/22/13 09:10	09/08/13 21:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/08/13 21:29	1
Chromium	0.028		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 21:29	1
Cobalt	0.0061	J	0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 21:29	1
Iron	25		0.20	0.20	mg/L		08/22/13 09:10	09/08/13 21:29	1
Lead	0.012		0.0075	0.0050	mg/L		08/22/13 09:10	09/08/13 21:29	1
Manganese	0.098		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 21:29	1
Nickel	0.025		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 21:29	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/08/13 21:29	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 21:29	1
Zinc	0.47	B	0.10	0.020	mg/L		08/22/13 09:10	09/08/13 21:29	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 17:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/22/13 09:10	08/26/13 14:33	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 11:38	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0085	mg/Kg	☆	08/20/13 13:30	08/21/13 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.67		0.200	0.200	SU			08/29/13 01:24	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B05

Lab Sample ID: 500-61265-3

Date Collected: 08/15/13 11:30

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 88.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Chloromethane	<0.0041		0.0041	0.00087	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
1,1-Dichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
1,2-Dichloropropane	<0.0041		0.0041	0.00063	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Vinyl chloride	<0.0041		0.0041	0.00087	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	08/15/13 11:30	08/21/13 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/15/13 11:30	08/21/13 13:07	1
Dibromofluoromethane	103		75 - 120	08/15/13 11:30	08/21/13 13:07	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/15/13 11:30	08/21/13 13:07	1
Toluene-d8 (Surr)	93		75 - 122	08/15/13 11:30	08/21/13 13:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B05

Lab Sample ID: 500-61265-3

Date Collected: 08/15/13 11:30

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 88.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
2-Nitrophenol	<0.36		0.36	0.058	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B05

Lab Sample ID: 500-61265-3

Date Collected: 08/15/13 11:30

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 88.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/26/13 07:24	08/29/13 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		30 - 110	08/26/13 07:24	08/29/13 22:12	1
Phenol-d5	61		31 - 110	08/26/13 07:24	08/29/13 22:12	1
Nitrobenzene-d5	61		30 - 115	08/26/13 07:24	08/29/13 22:12	1
2-Fluorobiphenyl	70		30 - 119	08/26/13 07:24	08/29/13 22:12	1
2,4,6-Tribromophenol	65		35 - 137	08/26/13 07:24	08/29/13 22:12	1
Terphenyl-d14	78		36 - 134	08/26/13 07:24	08/29/13 22:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.42	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Arsenic	5.4		0.53	0.10	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Barium	25		0.53	0.056	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Beryllium	0.59		0.21	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Boron	10		2.6	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Cadmium	0.18		0.11	0.013	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Calcium	41000	B	11	2.9	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Chromium	16		0.53	0.061	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Cobalt	8.7	B	0.26	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Copper	21		0.53	0.047	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Iron	18000		11	4.3	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Lead	11	B	0.26	0.078	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Magnesium	24000	B	5.3	1.1	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Manganese	300	B	0.53	0.029	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Nickel	25		0.53	0.052	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Potassium	2500		26	1.6	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Sodium	690		53	7.0	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Thallium	0.70		0.53	0.22	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Vanadium	17		0.26	0.039	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Zinc	51		1.1	0.21	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1
Aluminum	9600	B	11	0.97	mg/Kg	☼	08/16/13 08:00	09/09/13 02:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.29		0.20	0.20	mg/L		09/11/13 08:45	09/12/13 04:50	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 08:45	09/12/13 04:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B05

Lab Sample ID: 500-61265-3

Date Collected: 08/15/13 11:30

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.80		0.025	0.010	mg/L		09/11/13 08:45	09/12/13 04:50	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.75	B	0.50	0.010	mg/L		08/22/13 09:10	09/08/13 21:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/22/13 09:10	09/08/13 21:35	1
Boron	1.1		0.10	0.050	mg/L		08/22/13 09:10	09/08/13 21:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/08/13 21:35	1
Chromium	0.049		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 21:35	1
Cobalt	0.013	J	0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 21:35	1
Iron	42		0.20	0.20	mg/L		08/22/13 09:10	09/08/13 21:35	1
Lead	0.020		0.0075	0.0050	mg/L		08/22/13 09:10	09/08/13 21:35	1
Manganese	0.23		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 21:35	1
Nickel	0.050		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 21:35	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/08/13 21:35	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 21:35	1
Zinc	0.58	B	0.10	0.020	mg/L		08/22/13 09:10	09/08/13 21:35	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 17:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/22/13 09:10	08/26/13 14:35	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000082	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 11:44	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0082	mg/Kg	☼	08/20/13 13:30	08/21/13 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.34		0.200	0.200	SU			08/29/13 01:47	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B06

Lab Sample ID: 500-61265-4

Date Collected: 08/15/13 11:20

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Benzene	<0.0041		0.0041	0.00057	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Chloroform	<0.0041		0.0041	0.00048	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Chloromethane	<0.0041		0.0041	0.00087	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
1,1-Dichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
1,2-Dichloropropane	<0.0041		0.0041	0.00063	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Ethylbenzene	<0.0041		0.0041	0.00084	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Vinyl chloride	<0.0041		0.0041	0.00087	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1
Xylenes, Total	<0.0083		0.0083	0.00037	mg/Kg	☼	08/15/13 11:20	08/21/13 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/15/13 11:20	08/21/13 13:30	1
Dibromofluoromethane	101		75 - 120	08/15/13 11:20	08/21/13 13:30	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/15/13 11:20	08/21/13 13:30	1
Toluene-d8 (Surr)	95		75 - 122	08/15/13 11:20	08/21/13 13:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B06

Lab Sample ID: 500-61265-4

Date Collected: 08/15/13 11:20

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.056	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
4-Nitroaniline	<0.37		0.37	0.075	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Diethyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Di-n-butyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B06

Lab Sample ID: 500-61265-4

Date Collected: 08/15/13 11:20

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
Benzo[g,h,i]perylene	0.013	J	0.037	0.012	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/26/13 07:24	08/29/13 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		30 - 110	08/26/13 07:24	08/29/13 22:29	1
Phenol-d5	66		31 - 110	08/26/13 07:24	08/29/13 22:29	1
Nitrobenzene-d5	63		30 - 115	08/26/13 07:24	08/29/13 22:29	1
2-Fluorobiphenyl	73		30 - 119	08/26/13 07:24	08/29/13 22:29	1
2,4,6-Tribromophenol	76		35 - 137	08/26/13 07:24	08/29/13 22:29	1
Terphenyl-d14	89		36 - 134	08/26/13 07:24	08/29/13 22:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Arsenic	8.5		0.52	0.10	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Barium	40		0.52	0.056	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Beryllium	0.52		0.21	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Boron	8.4		2.6	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Cadmium	0.21		0.10	0.013	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Calcium	40000	B	10	2.8	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Chromium	14		0.52	0.061	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Cobalt	8.2	B	0.26	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Copper	22		0.52	0.047	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Iron	19000		10	4.3	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Lead	15	B	0.26	0.078	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Magnesium	24000	B	5.2	1.1	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Manganese	350	B	0.52	0.028	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Nickel	23		0.52	0.051	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Potassium	1900		26	1.6	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Selenium	<0.52		0.52	0.19	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Sodium	550		52	7.0	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Thallium	0.60		0.52	0.22	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Vanadium	16		0.26	0.039	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Zinc	91		1.0	0.21	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1
Aluminum	8200	B	10	0.96	mg/Kg	☼	08/16/13 08:00	09/09/13 02:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 08:45	09/12/13 05:03	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 08:45	09/12/13 05:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B06

Lab Sample ID: 500-61265-4

Date Collected: 08/15/13 11:20

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.5		0.025	0.010	mg/L		09/11/13 08:45	09/12/13 05:03	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66	B	0.50	0.010	mg/L		08/22/13 09:10	09/08/13 21:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/22/13 09:10	09/08/13 21:41	1
Boron	0.91		0.10	0.050	mg/L		08/22/13 09:10	09/08/13 21:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/08/13 21:41	1
Chromium	0.048		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 21:41	1
Cobalt	0.014	J	0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 21:41	1
Iron	44		0.20	0.20	mg/L		08/22/13 09:10	09/08/13 21:41	1
Lead	0.026		0.0075	0.0050	mg/L		08/22/13 09:10	09/08/13 21:41	1
Manganese	0.26		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 21:41	1
Nickel	0.051		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 21:41	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/08/13 21:41	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 21:41	1
Zinc	0.53	B	0.10	0.020	mg/L		08/22/13 09:10	09/08/13 21:41	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 17:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/22/13 09:10	08/26/13 14:36	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000084	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 11:46	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0083	mg/Kg	☼	08/20/13 13:30	08/21/13 10:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.64		0.200	0.200	SU			08/29/13 02:34	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B07

Lab Sample ID: 500-61265-5

Date Collected: 08/15/13 11:10

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Benzene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Dibromochloromethane	<0.0043		0.0043	0.00076	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Ethylbenzene	<0.0043		0.0043	0.00088	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00072	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Trichloroethene	<0.0043		0.0043	0.00072	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	08/15/13 11:10	08/21/13 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/15/13 11:10	08/21/13 13:53	1
Dibromofluoromethane	102		75 - 120	08/15/13 11:10	08/21/13 13:53	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/15/13 11:10	08/21/13 13:53	1
Toluene-d8 (Surr)	96		75 - 122	08/15/13 11:10	08/21/13 13:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B07

Lab Sample ID: 500-61265-5

Date Collected: 08/15/13 11:10

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B07

Lab Sample ID: 500-61265-5

Date Collected: 08/15/13 11:10

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Benzo[b]fluoranthene	0.0090	J	0.038	0.0074	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/26/13 07:24	08/29/13 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		30 - 110	08/26/13 07:24	08/29/13 22:47	1
Phenol-d5	57		31 - 110	08/26/13 07:24	08/29/13 22:47	1
Nitrobenzene-d5	54		30 - 115	08/26/13 07:24	08/29/13 22:47	1
2-Fluorobiphenyl	62		30 - 119	08/26/13 07:24	08/29/13 22:47	1
2,4,6-Tribromophenol	72		35 - 137	08/26/13 07:24	08/29/13 22:47	1
Terphenyl-d14	88		36 - 134	08/26/13 07:24	08/29/13 22:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Arsenic	2.7		0.55	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Barium	68		0.55	0.058	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Beryllium	0.51		0.22	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Boron	8.0		2.7	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Cadmium	0.17		0.11	0.014	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Calcium	91000	B	110	30	mg/Kg	☼	08/16/13 08:00	09/09/13 15:09	10
Chromium	16		0.55	0.063	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Cobalt	3.9	B	0.27	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Copper	11		0.55	0.048	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Iron	13000		11	4.5	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Lead	8.2	B	0.27	0.081	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Magnesium	24000	B	5.5	1.1	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Manganese	180	B	0.55	0.030	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Nickel	15		0.55	0.054	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Potassium	2000		27	1.6	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Sodium	1200		55	7.3	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Thallium	0.58		0.55	0.23	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Vanadium	15		0.27	0.040	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Zinc	37		1.1	0.22	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1
Aluminum	9600	B	11	1.0	mg/Kg	☼	08/16/13 08:00	09/09/13 02:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 08:45	09/12/13 05:09	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 08:45	09/12/13 05:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Client Sample ID: 846D-87-B07

Lab Sample ID: 500-61265-5

Date Collected: 08/15/13 11:10

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71	B	0.50	0.010	mg/L		08/22/13 09:10	09/08/13 21:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/22/13 09:10	09/08/13 21:47	1
Boron	1.0		0.10	0.050	mg/L		08/22/13 09:10	09/08/13 21:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/08/13 21:47	1
Chromium	0.019	J	0.025	0.010	mg/L		08/22/13 09:10	09/08/13 21:47	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 21:47	1
Iron	14		0.20	0.20	mg/L		08/22/13 09:10	09/08/13 21:47	1
Lead	0.0075		0.0075	0.0050	mg/L		08/22/13 09:10	09/08/13 21:47	1
Manganese	0.10		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 21:47	1
Nickel	0.015	J	0.025	0.010	mg/L		08/22/13 09:10	09/08/13 21:47	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/08/13 21:47	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 21:47	1
Zinc	0.46	B	0.10	0.020	mg/L		08/22/13 09:10	09/08/13 21:47	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 17:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/22/13 09:10	08/26/13 14:47	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000028	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 11:48	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.017	0.0080	mg/Kg	☆	08/20/13 13:30	08/21/13 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.08		0.200	0.200	SU			08/29/13 02:57	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com	Project Name: US6/IL7Wilson & Cook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: KM #	COC No.: 1 of 1 Lab Job No.: 500-6/265 Sample Temp: 36.39/37 Matrix Key:
---	--	--	---

Special Instructions:
See Table 2 for complete parameter lists and minimum reporting limits.
* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
1	846D-87-B01	8/15/13	11:50	S	X						X	X	X	X		0-8'
2	846D-87-B02		11:40								X	X	X	X		0-8'
3	846D-87-B03		11:30								X	X	X	X		0-8'
4	846D-87-B04		11:20								X	X	X	X		0-8'
5	846D-87-B05		11:10	S	X	X					X	X	X	X		0-8'

Relinquished by: <i>Paula Adams (AEI)</i>	Date/Time: 8/15/13 3:08	Received by: <i>[Signature]</i>	Date/Time: 8/15/13 1550
Relinquished by: <i>[Signature]</i>	Date/Time: 8/15/13 1550	Received by: <i>[Signature]</i>	Date/Time: 8/15/13 1550
Relinquished by: <i>[Signature]</i>	Date/Time: 8/15/13 1550	Received by: <i>[Signature]</i>	Date/Time: 8/15/13 1550



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15741 to 15757 Bell Road

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60228 Longitude: -87.93002
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 1970505124 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60228 Longitude: -87.93002

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-91-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-91. SEE FIGURE 25 AND TABLE 3bv OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61265-3

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

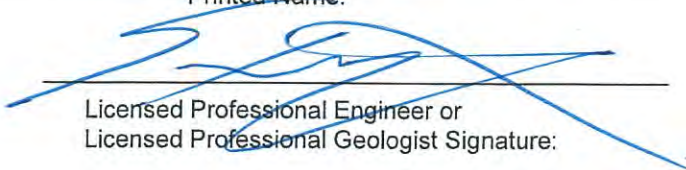
Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

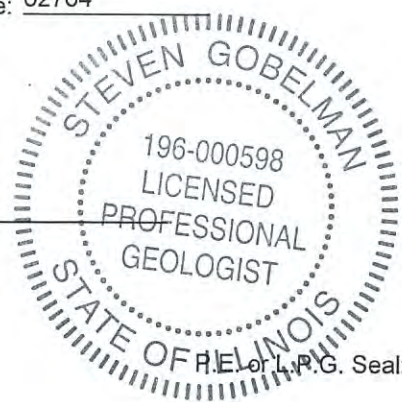
Phone: 217-785-4246

Steven Gobelman
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

1/8/14
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-91
Grove Valley Center

Sample ID	846D-91-B01							
Sample Depth (ft)	0-2							
Sample Date	8/15/2013							
PID	0							
Sample pH	8.3							
Matrix	Soil							
No Contaminants of Concern Noted.								
		¹ Most Stringent MAC	² Outside a Populated Area	³ Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Metropolitan Statistical Area	⁶ Class I Soil TCLP/SPLP Comparisons	Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-61265-3

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/12/2013 1:03:21 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-3

Client Sample ID: 846D-91-B01

Lab Sample ID: 500-61265-8

Date Collected: 08/15/13 10:25

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 84.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0059		0.0046	0.0020	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	08/15/13 10:25	08/21/13 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	08/15/13 10:25	08/21/13 15:01	1
Dibromofluoromethane	99		75 - 120	08/15/13 10:25	08/21/13 15:01	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/15/13 10:25	08/21/13 15:01	1
Toluene-d8 (Surr)	96		75 - 122	08/15/13 10:25	08/21/13 15:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-3

Client Sample ID: 846D-91-B01

Lab Sample ID: 500-61265-8

Date Collected: 08/15/13 10:25

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Phenanthrene	0.026	J	0.038	0.016	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Fluoranthene	0.029	J	0.038	0.016	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Pyrene	0.021	J	0.038	0.014	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Benzo[a]anthracene	0.015	J	0.038	0.0080	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-3

Client Sample ID: 846D-91-B01

Lab Sample ID: 500-61265-8

Date Collected: 08/15/13 10:25

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.021	J	0.038	0.0086	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Di-n-octyl phthalate	0.085	J	0.19	0.077	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Benzo[b]fluoranthene	0.019	J	0.038	0.0074	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Benzo[k]fluoranthene	0.016	J	0.038	0.0091	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Benzo[a]pyrene	0.015	J	0.038	0.0069	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Benzo[g,h,i]perylene	0.021	J	0.038	0.013	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/26/13 07:24	08/29/13 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		30 - 110				08/26/13 07:24	08/29/13 23:40	1
Phenol-d5	54		31 - 110				08/26/13 07:24	08/29/13 23:40	1
Nitrobenzene-d5	50		30 - 115				08/26/13 07:24	08/29/13 23:40	1
2-Fluorobiphenyl	59		30 - 119				08/26/13 07:24	08/29/13 23:40	1
2,4,6-Tribromophenol	75		35 - 137				08/26/13 07:24	08/29/13 23:40	1
Terphenyl-d14	84		36 - 134				08/26/13 07:24	08/29/13 23:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Arsenic	6.8		0.55	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Barium	35		0.55	0.059	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Beryllium	0.55		0.22	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Boron	7.0		2.7	0.12	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Cadmium	0.26		0.11	0.014	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Calcium	41000	B	11	3.0	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Chromium	14		0.55	0.064	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Cobalt	9.6	B	0.27	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Copper	23		0.55	0.049	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Iron	18000		11	4.5	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Lead	17	B	0.27	0.082	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Magnesium	23000	B	5.5	1.1	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Manganese	280	B	0.55	0.030	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Nickel	25		0.55	0.054	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Potassium	1800		27	1.6	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Selenium	0.22	J	0.55	0.19	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Sodium	1200		55	7.3	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Thallium	0.65		0.55	0.23	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Vanadium	17		0.27	0.041	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Zinc	74		1.1	0.22	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1
Aluminum	8700	B	11	1.0	mg/Kg	☼	08/16/13 08:00	09/09/13 03:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/13 08:45	09/12/13 05:24	1
Iron	<0.20		0.20	0.20	mg/L		09/11/13 08:45	09/12/13 05:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-3

Client Sample ID: 846D-91-B01

Lab Sample ID: 500-61265-8

Date Collected: 08/15/13 10:25

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 08:45	09/12/13 05:24	1
Manganese	2.8		0.025	0.010	mg/L		09/11/13 08:45	09/12/13 05:24	1
Nickel	0.017	J	0.025	0.010	mg/L		09/11/13 08:45	09/12/13 05:24	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	B	0.50	0.010	mg/L		08/22/13 09:10	09/08/13 22:06	1
Beryllium	0.0049		0.0040	0.0040	mg/L		08/22/13 09:10	09/08/13 22:06	1
Boron	1.2		0.10	0.050	mg/L		08/22/13 09:10	09/08/13 22:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/08/13 22:06	1
Chromium	0.099		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 22:06	1
Cobalt	0.035		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 22:06	1
Iron	100		0.20	0.20	mg/L		08/22/13 09:10	09/08/13 22:06	1
Lead	0.053		0.0075	0.0050	mg/L		08/22/13 09:10	09/08/13 22:06	1
Manganese	0.73		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 22:06	1
Nickel	0.11		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 22:06	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/08/13 22:06	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 22:06	1
Zinc	0.76	B	0.10	0.020	mg/L		08/22/13 09:10	09/08/13 22:06	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 08:45	09/11/13 16:28	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 17:46	1
Thallium	0.0020		0.0020	0.0020	mg/L		08/22/13 09:10	08/26/13 14:52	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 11:54	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0090	mg/Kg	☼	08/20/13 13:30	08/21/13 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.200	0.200	SU			08/29/13 04:07	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>156/IL7 Will & Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>KM, II</u>	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-6/265</u> Sample Temp: <u>36.39, 3.7</u> Matrix Key: <ul style="list-style-type: none"> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other
ANALYSES			
VOCs	X	S	
SVOCs	X		
BTEX & MTBE			
PNAs			
Pesticides			
PCBs			
* Total Metals	X		
SPLP/** TCLP Metals	X		
pH	X		
% Solids	X		
Waste Characterization			
Comments	0-21		
Lab ID	Sample ID	Sample Date	Sample Time
8	840D-91-B01	8/15/13	10:25
Matrix	S		
<p>Special Instructions:</p> <p>See Table 2 for complete parameter lists and minimum reporting limits.</p> <p>* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.</p> <p>** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.</p>			
Relinquished by:	Date/Time		
[Signature]	8/15/13 3:08		
Relinquished by:	Date/Time		
[Signature]	8/15/13 1550		
Relinquished by:	Date/Time		
[Signature]	8/15/13 1550		



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15800 Bell Road

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60216 Longitude: -87.93030
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60216 Longitude: -87.93030

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-92-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-92. SEE FIGURE 25 AND TABLE 3bw OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61265-4

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

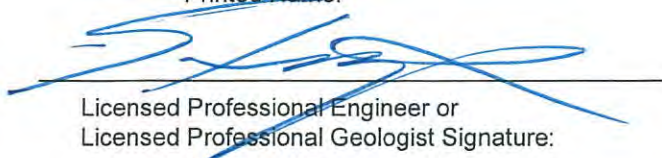
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

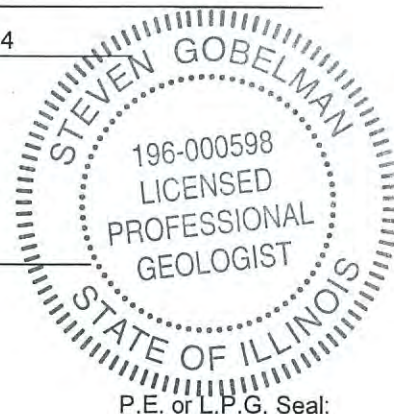
Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-92
Nick's Barbeque

Sample ID	846D-92-B01							
Sample Depth (ft)	0-3							
Sample Date	8/15/2013							
PID	0							
Sample pH	8.19							
Matrix	Soil							
No Contaminants of Concern Noted.								
		¹ Most Stringent MAC	² Outside a Populated Area	³ Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Metropolitan Statistical Area	⁶ Class I Soil TCLP/SPLP Comparisons	Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61265-4
Client Project/Site: IDOT - Gougar - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/10/2013 3:05:49 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-4

Client Sample ID: 846D-92-B01

Lab Sample ID: 500-61265-9

Date Collected: 08/15/13 10:35

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 88.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0049	J	0.0052	0.0022	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Chlorobenzene	<0.0052		0.0052	0.00052	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Chloroform	<0.0052		0.0052	0.00059	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
1,1-Dichloroethene	<0.0052		0.0052	0.00083	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
1,2-Dichloropropane	<0.0052		0.0052	0.00078	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00085	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Toluene	<0.0052		0.0052	0.00072	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00070	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Vinyl acetate	<0.0052		0.0052	0.00081	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	08/15/13 10:35	08/21/13 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/15/13 10:35	08/21/13 15:24	1
Dibromofluoromethane	106		75 - 120	08/15/13 10:35	08/21/13 15:24	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/15/13 10:35	08/21/13 15:24	1
Toluene-d8 (Surr)	95		75 - 122	08/15/13 10:35	08/21/13 15:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-4

Client Sample ID: 846D-92-B01

Lab Sample ID: 500-61265-9

Date Collected: 08/15/13 10:35

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Hexachlorobenzene	<0.075		0.075	0.0074	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-4

Client Sample ID: 846D-92-B01

Lab Sample ID: 500-61265-9

Date Collected: 08/15/13 10:35

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/26/13 07:24	08/29/13 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		30 - 110				08/26/13 07:24	08/29/13 23:57	1
Phenol-d5	59		31 - 110				08/26/13 07:24	08/29/13 23:57	1
Nitrobenzene-d5	63		30 - 115				08/26/13 07:24	08/29/13 23:57	1
2-Fluorobiphenyl	70		30 - 119				08/26/13 07:24	08/29/13 23:57	1
2,4,6-Tribromophenol	66		35 - 137				08/26/13 07:24	08/29/13 23:57	1
Terphenyl-d14	86		36 - 134				08/26/13 07:24	08/29/13 23:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Arsenic	8.6		0.56	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Barium	89		0.56	0.060	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Beryllium	0.70		0.23	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Boron	6.5		2.8	0.12	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Cadmium	0.11		0.11	0.014	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Calcium	39000	B	11	3.1	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Chromium	17		0.56	0.065	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Cobalt	11	B	0.28	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Copper	25		0.56	0.050	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Iron	22000		11	4.6	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Lead	13	B	0.28	0.084	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Magnesium	22000	B	5.6	1.2	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Manganese	430	B	0.56	0.031	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Nickel	26		0.56	0.055	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Potassium	1600		28	1.7	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Sodium	230		56	7.5	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Thallium	0.48	J	0.56	0.24	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Vanadium	22		0.28	0.042	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Zinc	44		1.1	0.23	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1
Aluminum	12000	B	11	1.0	mg/Kg	☼	08/16/13 08:00	09/09/13 03:07	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70	B	0.50	0.010	mg/L		08/22/13 09:10	09/08/13 22:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/22/13 09:10	09/08/13 22:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-4

Client Sample ID: 846D-92-B01

Lab Sample ID: 500-61265-9

Date Collected: 08/15/13 10:35

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.0		0.10	0.050	mg/L		08/22/13 09:10	09/08/13 22:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/08/13 22:27	1
Chromium	<0.025		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 22:27	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 22:27	1
Iron	0.63		0.20	0.20	mg/L		08/22/13 09:10	09/08/13 22:27	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/22/13 09:10	09/08/13 22:27	1
Manganese	<0.025		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 22:27	1
Nickel	<0.025		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 22:27	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/08/13 22:27	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 22:27	1
Zinc	0.46	B	0.10	0.020	mg/L		08/22/13 09:10	09/08/13 22:27	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 18:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/22/13 09:10	08/26/13 14:53	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 11:56	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0083	mg/Kg	☼	08/20/13 13:30	08/21/13 10:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU			08/29/13 04:30	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-4

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com	Project Information Project Name: <u>US6/IL7WILCO & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>KM #</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-6/265</u> Sample Temp: <u>36/39/37</u> Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other														
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																	
500-61265 COC																	
ANALYSES																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	
1	846D-87-B01 846D-87-B0A	8/15/13	11:50	S	X	X					X	X	X	X		0-8'	
2	846D-87-B04		11:40								X	X	X	X		0-8'	
3	846D-87-B05		11:30								X	X	X	X		0-8'	
4	846D-87-B06		11:20								X	X	X	X		0-8'	
5	846D-87-B07	↑	11:10	S	X	X					X	X	X	X		0-8'	
					Date/Time	Date/Time	Date/Time				Date/Time						
Relinquished by: <u>Kim Ashby (AEI)</u>					8/15/13	3:08				Received by: <u>[Signature]</u>			Date/Time: <u>8-15-13 1508</u>				
Relinquished by: <u>[Signature]</u>					8-15-13	1530				Received by: <u>[Signature]</u>			Date/Time: <u>8/15/13 1550</u>				
Relinquished by: <u>[Signature]</u>										Received by: <u>[Signature]</u>			Date/Time: <u></u>				



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Information Project Name: <u>456/IL7 Wier & Cook Co.</u> Project No.: <u>IDOT 2013 - 023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>KM, II</u>		Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-61265</u> Sample Temp: <u>36.3, 13.7</u> Matrix Key:										
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES		W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other		Comments <u>0-21</u>										
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
8	8460D-91-B01	8/15/13	10:25	S	X	X					X	X	X	X		
Relinquished by: <u>Paul A. Mills (AET)</u> Date/Time: <u>8/15/13 3:03</u> Received by: <u>[Signature]</u> Date/Time: <u>8/15/13 1550</u>																
Relinquished by: <u>[Signature]</u> Date/Time: <u>8/15/13 1550</u> Received by: <u>[Signature]</u> Date/Time: <u>8/15/13 1550</u>																
Relinquished by: <u>[Signature]</u> Date/Time: <u>8/15/13 1550</u> Received by: <u>[Signature]</u> Date/Time: <u>8/15/13 1550</u>																



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15801 Bell Road

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60189 Longitude: -87.92998
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60189 Longitude: -87.92998

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-93-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-93. SEE FIGURE 25 AND TABLE 3bx OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61265-5

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

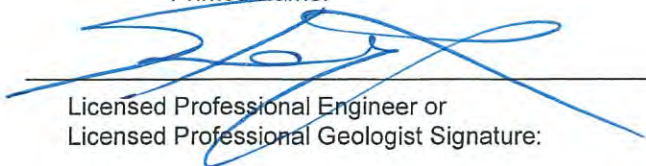
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

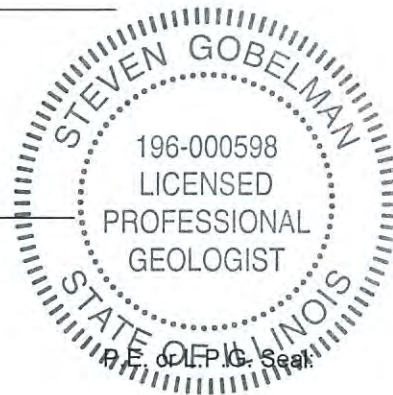
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-93

Palos Bank and Trust

Sample ID	846D-93-B01					
Sample Depth (ft)	0-6					
Sample Date	8/15/2013					
PID	0					
Sample pH	7.82					
Matrix	Soil					
No Contaminants of Concern Noted.						
		¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC
						⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-61265-5

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/10/2013 3:06:09 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-5

Client Sample ID: 846D-93-B01

Lab Sample ID: 500-61265-10

Date Collected: 08/15/13 10:10

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 88.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.0043	0.0018	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Benzene	<0.0043		0.0043	0.00058	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Bromoform	<0.0043		0.0043	0.00098	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Dibromochloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Ethylbenzene	<0.0043		0.0043	0.00086	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
1,1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00086	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Tetrachloroethene	<0.0043		0.0043	0.00065	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Trichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1
Xylenes, Total	<0.0085		0.0085	0.00039	mg/Kg	☼	08/15/13 10:10	08/21/13 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/15/13 10:10	08/21/13 15:46	1
Dibromofluoromethane	103		75 - 120	08/15/13 10:10	08/21/13 15:46	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/15/13 10:10	08/21/13 15:46	1
Toluene-d8 (Surr)	93		75 - 122	08/15/13 10:10	08/21/13 15:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-5

Client Sample ID: 846D-93-B01

Lab Sample ID: 500-61265-10

Date Collected: 08/15/13 10:10

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-5

Client Sample ID: 846D-93-B01

Lab Sample ID: 500-61265-10

Date Collected: 08/15/13 10:10

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/26/13 07:24	08/30/13 00:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		30 - 110				08/26/13 07:24	08/30/13 00:15	1
Phenol-d5	59		31 - 110				08/26/13 07:24	08/30/13 00:15	1
Nitrobenzene-d5	63		30 - 115				08/26/13 07:24	08/30/13 00:15	1
2-Fluorobiphenyl	68		30 - 119				08/26/13 07:24	08/30/13 00:15	1
2,4,6-Tribromophenol	55		35 - 137				08/26/13 07:24	08/30/13 00:15	1
Terphenyl-d14	81		36 - 134				08/26/13 07:24	08/30/13 00:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Arsenic	8.4		0.56	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Barium	45		0.56	0.059	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Beryllium	0.68		0.22	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Boron	7.7		2.8	0.12	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Cadmium	0.15		0.11	0.014	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Calcium	47000	B	11	3.0	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Chromium	17		0.56	0.064	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Cobalt	11	B	0.28	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Copper	23		0.56	0.049	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Iron	21000		11	4.6	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Lead	12	B	0.28	0.083	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Magnesium	24000	B	5.6	1.1	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Manganese	440	B	0.56	0.030	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Nickel	27		0.56	0.055	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Potassium	1800		28	1.7	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Sodium	180		56	7.4	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Thallium	0.88		0.56	0.23	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Vanadium	21		0.28	0.041	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Zinc	46		1.1	0.22	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1
Aluminum	10000	B	11	1.0	mg/Kg	☼	08/16/13 08:00	09/09/13 03:13	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47	J B	0.50	0.010	mg/L		08/22/13 09:10	09/08/13 22:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/22/13 09:10	09/08/13 22:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-5

Client Sample ID: 846D-93-B01

Lab Sample ID: 500-61265-10

Date Collected: 08/15/13 10:10

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.74		0.10	0.050	mg/L		08/22/13 09:10	09/08/13 22:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/08/13 22:52	1
Chromium	<0.025		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 22:52	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 22:52	1
Iron	0.39		0.20	0.20	mg/L		08/22/13 09:10	09/08/13 22:52	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/22/13 09:10	09/08/13 22:52	1
Manganese	<0.025		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 22:52	1
Nickel	<0.025		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 22:52	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/08/13 22:52	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 22:52	1
Zinc	0.34	B	0.10	0.020	mg/L		08/22/13 09:10	09/08/13 22:52	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 18:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/22/13 09:10	08/26/13 15:00	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000025	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 11:58	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.017	0.0080	mg/Kg	☼	08/20/13 13:30	08/21/13 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.82		0.200	0.200	SU			08/29/13 04:53	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-5

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Information Project Name: <u>156/IL7 Wier & Cook Co.</u> Project No.: <u>IDOT 2013 - 023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>KM, II</u>		Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-61265</u> Sample Temp: <u>36.3, 1, 3.7</u> Matrix Key:																																		
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES		W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other		Comments <u>0-21</u>																																		
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments																								
8	8460D-91-B01	8/15/13	10:25	S	X	X					X	X	X	X																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Relinquished by:</td> <td style="width: 25%;">Date/Time</td> <td style="width: 25%;">Received by:</td> <td style="width: 25%;">Date/Time</td> </tr> <tr> <td><u>Paul A. Mills (AET)</u></td> <td><u>8/15/13 3:03</u></td> <td><u>[Signature]</u></td> <td><u>8/15/13 1:08</u></td> </tr> <tr> <td>Relinquished by:</td> <td>Date/Time</td> <td>Relinquished by:</td> <td>Date/Time</td> </tr> <tr> <td><u>[Signature]</u></td> <td><u>8/15/13 1:50</u></td> <td><u>[Signature]</u></td> <td><u>8/15/13 1:50</u></td> </tr> <tr> <td>Relinquished by:</td> <td>Date/Time</td> <td>Relinquished by:</td> <td>Date/Time</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>																	Relinquished by:	Date/Time	Received by:	Date/Time	<u>Paul A. Mills (AET)</u>	<u>8/15/13 3:03</u>	<u>[Signature]</u>	<u>8/15/13 1:08</u>	Relinquished by:	Date/Time	Relinquished by:	Date/Time	<u>[Signature]</u>	<u>8/15/13 1:50</u>	<u>[Signature]</u>	<u>8/15/13 1:50</u>	Relinquished by:	Date/Time	Relinquished by:	Date/Time				
Relinquished by:	Date/Time	Received by:	Date/Time																																					
<u>Paul A. Mills (AET)</u>	<u>8/15/13 3:03</u>	<u>[Signature]</u>	<u>8/15/13 1:08</u>																																					
Relinquished by:	Date/Time	Relinquished by:	Date/Time																																					
<u>[Signature]</u>	<u>8/15/13 1:50</u>	<u>[Signature]</u>	<u>8/15/13 1:50</u>																																					
Relinquished by:	Date/Time	Relinquished by:	Date/Time																																					



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15829 Bell Road

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60139 Longitude: -87.92996
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1970505076 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60139 Longitude: -87.92996

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-94-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-94. SEE FIGURE 25 AND TABLE 3by OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61265-6

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

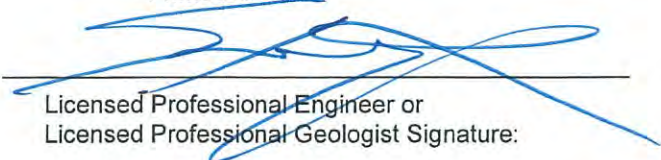
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

1/15/14
 Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-94

Bell Side 7 Auto Repair

Sample ID	846D-94-B01	846D-94-B02							
Sample Depth (ft)	0-6	0-6							
Sample Date	8/15/2013	8/15/2013							
PID	0	0							
Sample pH	7.82	7.18							
Matrix	Soil	Soil							
No Contaminants of Concern Noted.									
			¹ Most Stringent MAC	² Outside a Populated Area	³ Populated non-Metropolitan Area	⁴ Within Chicago Corporate Limits	⁵ Metropolitan Statistical Area	⁶ Class I Soil TCLP/SPLP Comparisons	Only
			MAC	MAC	MAC	MAC	MAC	MAC	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-61265-6

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/12/2013 1:04:35 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-6

Client Sample ID: 846D-94-B01

Lab Sample ID: 500-61265-11

Date Collected: 08/15/13 09:30

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 82.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Benzene	<0.0051		0.0051	0.00069	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Carbon tetrachloride	<0.0051		0.0051	0.00092	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Chlorobenzene	<0.0051		0.0051	0.00051	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Chloroform	<0.0051		0.0051	0.00058	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Dibromochloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Tetrachloroethene	<0.0051		0.0051	0.00077	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	08/15/13 09:30	08/21/13 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	08/15/13 09:30	08/21/13 16:09	1
Dibromofluoromethane	106		75 - 120	08/15/13 09:30	08/21/13 16:09	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/15/13 09:30	08/21/13 16:09	1
Toluene-d8 (Surr)	92		75 - 122	08/15/13 09:30	08/21/13 16:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-6

Client Sample ID: 846D-94-B01

Lab Sample ID: 500-61265-11

Date Collected: 08/15/13 09:30

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-6

Client Sample ID: 846D-94-B01

Lab Sample ID: 500-61265-11

Date Collected: 08/15/13 09:30

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/26/13 07:24	08/30/13 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		30 - 110				08/26/13 07:24	08/30/13 00:32	1
Phenol-d5	59		31 - 110				08/26/13 07:24	08/30/13 00:32	1
Nitrobenzene-d5	62		30 - 115				08/26/13 07:24	08/30/13 00:32	1
2-Fluorobiphenyl	70		30 - 119				08/26/13 07:24	08/30/13 00:32	1
2,4,6-Tribromophenol	73		35 - 137				08/26/13 07:24	08/30/13 00:32	1
Terphenyl-d14	90		36 - 134				08/26/13 07:24	08/30/13 00:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Arsenic	8.2		0.56	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Barium	130		0.56	0.060	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Beryllium	0.90		0.22	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Boron	2.7 J		2.8	0.12	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Cadmium	<0.11		0.11	0.014	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Calcium	14000 B		11	3.0	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Chromium	20		0.56	0.065	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Cobalt	8.0 B		0.28	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Copper	21		0.56	0.050	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Iron	25000		11	4.6	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Lead	13 B		0.28	0.084	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Magnesium	10000 B		5.6	1.2	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Manganese	350 B		0.56	0.031	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Nickel	22		0.56	0.055	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Potassium	1200		28	1.7	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Selenium	0.34 J		0.56	0.20	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Sodium	140		56	7.5	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Thallium	0.42 J		0.56	0.24	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Vanadium	27		0.28	0.042	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Zinc	46		1.1	0.23	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1
Aluminum	17000 B		11	1.0	mg/Kg	☼	08/16/13 08:00	09/09/13 03:19	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.79 B		0.50	0.010	mg/L		08/22/13 09:10	09/08/13 22:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/22/13 09:10	09/08/13 22:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-6

Client Sample ID: 846D-94-B01

Lab Sample ID: 500-61265-11

Date Collected: 08/15/13 09:30

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.3		0.10	0.050	mg/L		08/22/13 09:10	09/08/13 22:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/08/13 22:58	1
Chromium	<0.025		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 22:58	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 22:58	1
Iron	2.1		0.20	0.20	mg/L		08/22/13 09:10	09/08/13 22:58	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/22/13 09:10	09/08/13 22:58	1
Manganese	0.012	J	0.025	0.010	mg/L		08/22/13 09:10	09/08/13 22:58	1
Nickel	<0.025		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 22:58	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/08/13 22:58	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 22:58	1
Zinc	0.57	B	0.10	0.020	mg/L		08/22/13 09:10	09/08/13 22:58	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 18:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/22/13 09:10	08/26/13 15:02	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000026	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 12:00	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.019	0.0089	mg/Kg	☼	08/20/13 13:30	08/21/13 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.82		0.200	0.200	SU			08/29/13 05:17	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-6

Client Sample ID: 846D-94-B02

Lab Sample ID: 500-61265-12

Date Collected: 08/15/13 09:40

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 82.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	08/15/13 09:40	08/21/13 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/15/13 09:40	08/21/13 16:32	1
Dibromofluoromethane	99		75 - 120	08/15/13 09:40	08/21/13 16:32	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/15/13 09:40	08/21/13 16:32	1
Toluene-d8 (Surr)	95		75 - 122	08/15/13 09:40	08/21/13 16:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-6

Client Sample ID: 846D-94-B02

Lab Sample ID: 500-61265-12

Date Collected: 08/15/13 09:40

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-6

Client Sample ID: 846D-94-B02

Lab Sample ID: 500-61265-12

Date Collected: 08/15/13 09:40

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.039	0.0089	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Benzo[b]fluoranthene	0.012	J	0.039	0.0076	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Benzo[a]pyrene	0.012	J	0.039	0.0072	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/26/13 07:24	08/30/13 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	45		25 - 110				08/26/13 07:24	08/30/13 13:09	1
Phenol-d5	44		31 - 110				08/26/13 07:24	08/30/13 13:09	1
Nitrobenzene-d5	49		25 - 115				08/26/13 07:24	08/30/13 13:09	1
2-Fluorobiphenyl	67		25 - 119				08/26/13 07:24	08/30/13 13:09	1
2,4,6-Tribromophenol	77		35 - 137				08/26/13 07:24	08/30/13 13:09	1
Terphenyl-d14	86		36 - 134				08/26/13 07:24	08/30/13 13:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Arsenic	10		0.58	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Barium	74		0.58	0.062	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Beryllium	0.86		0.23	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Boron	3.9		2.9	0.12	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Cadmium	<0.12		0.12	0.015	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Calcium	3000	B	12	3.1	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Chromium	20		0.58	0.067	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Cobalt	19	B	0.29	0.021	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Copper	23		0.58	0.051	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Iron	27000		12	4.7	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Lead	27	B	0.29	0.086	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Magnesium	3700	B	5.8	1.2	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Manganese	940	B	5.8	0.31	mg/Kg	☼	08/16/13 08:00	09/09/13 15:27	10
Nickel	23		0.58	0.057	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Potassium	1300		29	1.7	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Selenium	0.95		0.58	0.21	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Sodium	120		58	7.7	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Thallium	0.92		0.58	0.24	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Vanadium	27		0.29	0.043	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Zinc	53		1.2	0.23	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1
Aluminum	14000	B	12	1.1	mg/Kg	☼	08/16/13 08:00	09/09/13 03:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 08:45	09/12/13 05:29	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 08:45	09/12/13 05:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-6

Client Sample ID: 846D-94-B02

Lab Sample ID: 500-61265-12

Date Collected: 08/15/13 09:40

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.83	B	0.50	0.010	mg/L		08/22/13 09:10	09/08/13 23:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/22/13 09:10	09/08/13 23:05	1
Boron	1.3		0.10	0.050	mg/L		08/22/13 09:10	09/08/13 23:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/08/13 23:05	1
Chromium	0.037		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:05	1
Cobalt	0.0064	J	0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 23:05	1
Iron	35		0.20	0.20	mg/L		08/22/13 09:10	09/08/13 23:05	1
Lead	0.014		0.0075	0.0050	mg/L		08/22/13 09:10	09/08/13 23:05	1
Manganese	0.14		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:05	1
Nickel	0.032		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:05	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/08/13 23:05	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 23:05	1
Zinc	0.58	B	0.10	0.020	mg/L		08/22/13 09:10	09/08/13 23:05	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 18:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/22/13 09:10	08/27/13 12:21	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000064	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 12:02	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.020	0.0092	mg/Kg	✱	08/20/13 13:30	08/21/13 10:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.18		0.200	0.200	SU			08/29/13 11:52	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-6

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15861 Bell Road

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60024 Longitude: -87.92985
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 1970455270 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60024 Longitude: -87.92985

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-95-B01 THROUGH -B05 WERE SAMPLED ADJACENT TO SITE NO. 846D-95. SEE FIGURES 17 & 25, AND TABLE 3bz OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-61265-7 AND 500-61359-3

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

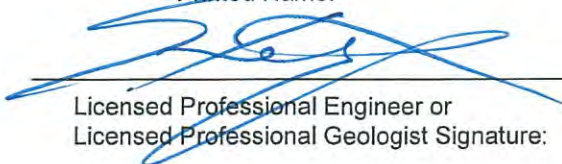
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

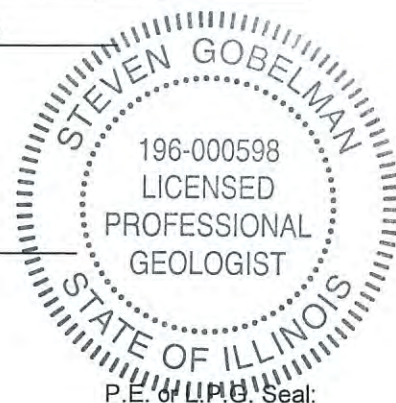
Phone: 217-785-4246

Steven Gobelman

Printed Name.


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

1/13/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-95
Circle K Shell

Sample ID	846D-95-B01	846D-95-B02	846D-95-B03	846D-95-B04	846D-95-B04 DUP	846D-95-B05	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	0-5	0-5	0-5	0-5	0-5						
Sample Date	8/15/2013	8/16/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013						
PID	0	0	0	0	0	0						
Sample pH	8.17	7.03	7.65	8.58	8.3	7.66						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	ND	ND	J 0.022	0.06	0.092	J 0.0092	0.09	0.09	0.98	1.3	2.1	NA
Inorganic Compounds, Total (mg/kg)												
Arsenic	11	11	12	7.8	8	7.5	11.3	NA	11.3	NA	13	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61359-3
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/12/2013 1:07:19 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-3

Client Sample ID: 846D-95-B02

Lab Sample ID: 500-61359-5

Date Collected: 08/16/13 08:25

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 80.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0082		0.0050	0.0022	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Vinyl acetate	<0.0050		0.0050	0.00079	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	08/16/13 08:25	08/20/13 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/16/13 08:25	08/20/13 19:17	1
Dibromofluoromethane	100		75 - 120	08/16/13 08:25	08/20/13 19:17	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/16/13 08:25	08/20/13 19:17	1
Toluene-d8 (Surr)	95		75 - 122	08/16/13 08:25	08/20/13 19:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.065	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-3

Client Sample ID: 846D-95-B02

Lab Sample ID: 500-61359-5

Date Collected: 08/16/13 08:25

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 80.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
2-Methylphenol	<0.21		0.21	0.054	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.045	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
4-Chloroaniline	<0.83		0.83	0.12	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
2,4,6-Trichlorophenol	<0.41		0.41	0.051	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Acenaphthylene	<0.041		0.041	0.0094	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Diethyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.064	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
N-Nitrosodiphenylamine	<0.21		0.21	0.055	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.099	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Anthracene	<0.041		0.041	0.0096	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Benzo[a]anthracene	<0.041		0.041	0.0086	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-3

Client Sample ID: 846D-95-B02

Lab Sample ID: 500-61359-5

Date Collected: 08/16/13 08:25

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 80.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.0092	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Benzo[b]fluoranthene	<0.041		0.041	0.0080	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Benzo[k]fluoranthene	<0.041		0.041	0.0098	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Benzo[a]pyrene	<0.041		0.041	0.0075	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	08/28/13 20:04	08/31/13 04:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	17	X	25 - 110	08/28/13 20:04	08/31/13 04:11	1
Phenol-d5	14	X	31 - 110	08/28/13 20:04	08/31/13 04:11	1
Nitrobenzene-d5	19	X	25 - 115	08/28/13 20:04	08/31/13 04:11	1
2-Fluorobiphenyl	25		25 - 119	08/28/13 20:04	08/31/13 04:11	1
2,4,6-Tribromophenol	25	X	35 - 137	08/28/13 20:04	08/31/13 04:11	1
Terphenyl-d14	77		36 - 134	08/28/13 20:04	08/31/13 04:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Arsenic	11		0.58	0.12	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Barium	91		0.58	0.062	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Beryllium	0.69		0.23	0.020	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Boron	1.4	J	2.9	0.12	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Cadmium	0.28		0.12	0.015	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Calcium	1800	B	12	3.1	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Chromium	16		0.58	0.067	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Cobalt	7.1		0.29	0.021	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Copper	24		0.58	0.051	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Iron	24000	B	12	4.8	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Lead	13		0.29	0.086	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Magnesium	3100	B	5.8	1.2	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Manganese	540	B	0.58	0.032	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Nickel	28	B	0.58	0.057	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Potassium	750		29	1.7	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Selenium	0.62		0.58	0.21	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Sodium	920		58	7.8	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Thallium	<0.58		0.58	0.24	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Vanadium	20		0.29	0.043	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Zinc	51		1.2	0.23	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1
Aluminum	10000		12	1.1	mg/Kg	☼	08/20/13 16:00	08/30/13 03:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/13 07:45	09/12/13 03:04	1
Chromium	<0.025		0.025	0.010	mg/L		09/11/13 07:45	09/12/13 03:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-3

Client Sample ID: 846D-95-B02

Lab Sample ID: 500-61359-5

Date Collected: 08/16/13 08:25

Matrix: Solid

Date Received: 08/16/13 15:20

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.32		0.20	0.20	mg/L		09/11/13 07:45	09/12/13 03:04	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 07:45	09/12/13 03:04	1
Manganese	0.28		0.025	0.010	mg/L		09/11/13 07:45	09/12/13 03:04	1
Nickel	0.013	J	0.025	0.010	mg/L		09/11/13 07:45	09/12/13 03:04	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.83	B	0.50	0.010	mg/L		08/23/13 08:29	09/08/13 17:57	1
Beryllium	0.0054		0.0040	0.0040	mg/L		08/23/13 08:29	09/08/13 17:57	1
Boron	0.72		0.10	0.050	mg/L		08/23/13 08:29	09/08/13 17:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/23/13 08:29	09/08/13 17:57	1
Chromium	0.12		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 17:57	1
Cobalt	0.023	J	0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 17:57	1
Iron	130		0.20	0.20	mg/L		08/23/13 08:29	09/08/13 17:57	1
Lead	0.038		0.0075	0.0050	mg/L		08/23/13 08:29	09/08/13 17:57	1
Manganese	0.67		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 17:57	1
Nickel	0.12		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 17:57	1
Selenium	<0.050		0.050	0.010	mg/L		08/23/13 08:29	09/08/13 17:57	1
Silver	<0.025		0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 17:57	1
Zinc	0.60		0.10	0.020	mg/L		08/23/13 08:29	09/08/13 17:57	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 07:45	09/11/13 16:36	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/23/13 08:29	08/26/13 18:32	1
Thallium	0.0021		0.0020	0.0020	mg/L		08/23/13 08:29	08/26/13 18:32	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00023		0.00020	0.000020	mg/L		08/23/13 15:00	08/26/13 12:57	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.020	0.0092	mg/Kg	☼	08/21/13 13:00	08/22/13 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.03		0.200	0.200	SU			08/29/13 17:06	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-61265-7

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/12/2013 1:05:26 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B01

Lab Sample ID: 500-61265-13

Date Collected: 08/15/13 08:40

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0063		0.0045	0.0020	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	08/15/13 08:40	08/21/13 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/15/13 08:40	08/21/13 16:54	1
Dibromofluoromethane	103		75 - 120	08/15/13 08:40	08/21/13 16:54	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/15/13 08:40	08/21/13 16:54	1
Toluene-d8 (Surr)	95		75 - 122	08/15/13 08:40	08/21/13 16:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B01

Lab Sample ID: 500-61265-13

Date Collected: 08/15/13 08:40

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Hexachlorobenzene	<0.078		0.078	0.0077	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Benzo[a]anthracene	<0.039		0.039	0.0081	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B01

Lab Sample ID: 500-61265-13

Date Collected: 08/15/13 08:40

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Benzo[b]fluoranthene	<0.039		0.039	0.0075	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/26/13 07:24	08/30/13 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	08/26/13 07:24	08/30/13 13:53	1
Phenol-d5	47		31 - 110	08/26/13 07:24	08/30/13 13:53	1
Nitrobenzene-d5	58		25 - 115	08/26/13 07:24	08/30/13 13:53	1
2-Fluorobiphenyl	66		25 - 119	08/26/13 07:24	08/30/13 13:53	1
2,4,6-Tribromophenol	49		35 - 137	08/26/13 07:24	08/30/13 13:53	1
Terphenyl-d14	79		36 - 134	08/26/13 07:24	08/30/13 13:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Arsenic	11		0.55	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Barium	61		0.55	0.059	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Beryllium	0.64		0.22	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Boron	6.3		2.8	0.12	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Cadmium	0.14		0.11	0.014	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Calcium	26000	B	11	3.0	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Chromium	16		0.55	0.064	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Cobalt	15	B	0.28	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Copper	29		0.55	0.049	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Iron	23000		11	4.5	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Lead	16	B	0.28	0.082	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Magnesium	19000	B	5.5	1.1	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Manganese	880	B	5.5	0.30	mg/Kg	☼	08/16/13 08:00	09/09/13 15:34	10
Nickel	34		0.55	0.054	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Potassium	1500		28	1.7	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Selenium	0.21	J	0.55	0.20	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Sodium	270		55	7.4	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Thallium	0.72		0.55	0.23	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Vanadium	19		0.28	0.041	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Zinc	55		1.1	0.22	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1
Aluminum	10000	B	11	1.0	mg/Kg	☼	08/16/13 08:00	09/09/13 03:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 08:45	09/12/13 05:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B01

Lab Sample ID: 500-61265-13

Date Collected: 08/15/13 08:40

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.77	B	0.50	0.010	mg/L		08/22/13 09:10	09/08/13 23:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/22/13 09:10	09/08/13 23:11	1
Boron	1.4		0.10	0.050	mg/L		08/22/13 09:10	09/08/13 23:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/08/13 23:11	1
Chromium	0.013	J	0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:11	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 23:11	1
Iron	9.0		0.20	0.20	mg/L		08/22/13 09:10	09/08/13 23:11	1
Lead	0.0052	J	0.0075	0.0050	mg/L		08/22/13 09:10	09/08/13 23:11	1
Manganese	0.044		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:11	1
Nickel	<0.025		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:11	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/08/13 23:11	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 23:11	1
Zinc	0.58	B	0.10	0.020	mg/L		08/22/13 09:10	09/08/13 23:11	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 18:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/22/13 09:10	08/27/13 12:25	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000030	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 12:08	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0085	mg/Kg	✱	08/21/13 13:00	08/22/13 10:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17		0.200	0.200	SU			08/29/13 12:16	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B03

Lab Sample ID: 500-61265-14

Date Collected: 08/15/13 08:50

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0077		0.0049	0.0021	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Vinyl acetate	<0.0049		0.0049	0.00076	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	08/15/13 08:50	08/21/13 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/15/13 08:50	08/21/13 17:17	1
Dibromofluoromethane	105		75 - 120	08/15/13 08:50	08/21/13 17:17	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/15/13 08:50	08/21/13 17:17	1
Toluene-d8 (Surr)	94		75 - 122	08/15/13 08:50	08/21/13 17:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B03

Lab Sample ID: 500-61265-14

Date Collected: 08/15/13 08:50

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Acenaphthylene	<0.037		0.037	0.0087	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.092	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Phenanthrene	0.019	J	0.037	0.016	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Anthracene	<0.037		0.037	0.0089	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Fluoranthene	0.030	J	0.037	0.015	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Pyrene	0.029	J	0.037	0.014	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Benzo[a]anthracene	0.019	J	0.037	0.0079	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B03

Lab Sample ID: 500-61265-14

Date Collected: 08/15/13 08:50

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.022	J	0.037	0.0085	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Benzo[b]fluoranthene	0.022	J	0.037	0.0073	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Benzo[k]fluoranthene	0.016	J	0.037	0.0090	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Benzo[a]pyrene	0.022	J	0.037	0.0069	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.037	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
Benzo[g,h,i]perylene	0.021	J	0.037	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/26/13 07:24	08/30/13 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		25 - 110	08/26/13 07:24	08/30/13 14:15	1
Phenol-d5	53		31 - 110	08/26/13 07:24	08/30/13 14:15	1
Nitrobenzene-d5	54		25 - 115	08/26/13 07:24	08/30/13 14:15	1
2-Fluorobiphenyl	65		25 - 119	08/26/13 07:24	08/30/13 14:15	1
2,4,6-Tribromophenol	50		35 - 137	08/26/13 07:24	08/30/13 14:15	1
Terphenyl-d14	87		36 - 134	08/26/13 07:24	08/30/13 14:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Arsenic	12		0.57	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Barium	41		0.57	0.061	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Beryllium	0.56		0.23	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Boron	7.2		2.9	0.12	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Cadmium	0.11		0.11	0.015	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Calcium	50000	B	11	3.1	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Chromium	13		0.57	0.066	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Cobalt	11	B	0.29	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Copper	29		0.57	0.051	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Iron	19000		11	4.7	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Lead	14	B	0.29	0.085	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Magnesium	29000	B	5.7	1.2	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Manganese	470	B	0.57	0.031	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Nickel	29		0.57	0.056	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Potassium	1500		29	1.7	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Sodium	220		57	7.7	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Thallium	0.96		0.57	0.24	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Vanadium	17		0.29	0.042	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Zinc	48		1.1	0.23	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1
Aluminum	7800	B	11	1.1	mg/Kg	☼	08/16/13 08:00	09/09/13 03:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.80	B	0.50	0.010	mg/L	☼	08/22/13 09:10	09/08/13 23:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	☼	08/22/13 09:10	09/08/13 23:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B03

Lab Sample ID: 500-61265-14

Date Collected: 08/15/13 08:50

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.8		0.10	0.050	mg/L		08/22/13 09:10	09/08/13 23:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/08/13 23:17	1
Chromium	<0.025		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:17	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 23:17	1
Iron	3.7		0.20	0.20	mg/L		08/22/13 09:10	09/08/13 23:17	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/22/13 09:10	09/08/13 23:17	1
Manganese	0.027		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:17	1
Nickel	<0.025		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:17	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/08/13 23:17	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 23:17	1
Zinc	0.78	B	0.10	0.020	mg/L		08/22/13 09:10	09/08/13 23:17	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 18:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/22/13 09:10	08/27/13 12:28	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000027	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 12:10	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0086	mg/Kg	☼	08/21/13 13:00	08/22/13 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.65		0.200	0.200	SU			08/29/13 12:39	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B04

Lab Sample ID: 500-61265-15

Date Collected: 08/15/13 09:05

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 84.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.030		0.0047	0.0020	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	08/15/13 09:05	08/21/13 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	08/15/13 09:05	08/21/13 17:39	1
Dibromofluoromethane	105		75 - 120	08/15/13 09:05	08/21/13 17:39	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/15/13 09:05	08/21/13 17:39	1
Toluene-d8 (Surr)	92		75 - 122	08/15/13 09:05	08/21/13 17:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B04

Lab Sample ID: 500-61265-15

Date Collected: 08/15/13 09:05

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 84.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
2,4-Dichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
2,4,6-Trichlorophenol	<0.38		0.38	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Phenanthrene	0.12		0.038	0.016	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Anthracene	0.017 J		0.038	0.0089	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Fluoranthene	0.15		0.038	0.015	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Pyrene	0.12		0.038	0.014	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Benzo[a]anthracene	0.059		0.038	0.0079	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B04

Lab Sample ID: 500-61265-15

Date Collected: 08/15/13 09:05

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 84.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.077		0.038	0.0085	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Benzo[b]fluoranthene	0.082		0.038	0.0073	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Benzo[k]fluoranthene	0.041		0.038	0.0090	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Benzo[a]pyrene	0.060		0.038	0.0069	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Indeno[1,2,3-cd]pyrene	0.040		0.038	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Dibenz(a,h)anthracene	0.015	J	0.038	0.011	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
Benzo[g,h,i]perylene	0.048		0.038	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/26/13 07:24	08/30/13 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	37		25 - 110	08/26/13 07:24	08/30/13 14:37	1
Phenol-d5	35		31 - 110	08/26/13 07:24	08/30/13 14:37	1
Nitrobenzene-d5	44		25 - 115	08/26/13 07:24	08/30/13 14:37	1
2-Fluorobiphenyl	50		25 - 119	08/26/13 07:24	08/30/13 14:37	1
2,4,6-Tribromophenol	59		35 - 137	08/26/13 07:24	08/30/13 14:37	1
Terphenyl-d14	69		36 - 134	08/26/13 07:24	08/30/13 14:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Arsenic	7.8		0.56	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Barium	18		0.56	0.060	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Beryllium	0.44		0.22	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Boron	7.7		2.8	0.12	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Cadmium	0.12		0.11	0.014	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Calcium	52000	B	11	3.0	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Chromium	12		0.56	0.065	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Cobalt	6.6	B	0.28	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Copper	26		0.56	0.050	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Iron	17000		11	4.6	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Lead	13	B	0.28	0.083	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Magnesium	30000	B	5.6	1.2	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Manganese	340	B	0.56	0.030	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Nickel	19		0.56	0.055	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Potassium	1700		28	1.7	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Sodium	990		56	7.5	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Thallium	0.73		0.56	0.24	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Vanadium	14		0.28	0.041	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Zinc	49		1.1	0.23	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1
Aluminum	6500	B	11	1.0	mg/Kg	☼	08/16/13 08:00	09/09/13 03:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 08:45	09/12/13 05:40	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 08:45	09/12/13 05:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B04

Lab Sample ID: 500-61265-15

Date Collected: 08/15/13 09:05

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3		0.025	0.010	mg/L		09/11/13 08:45	09/12/13 05:40	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.85	B	0.50	0.010	mg/L		08/22/13 09:10	09/08/13 23:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/22/13 09:10	09/08/13 23:23	1
Boron	1.8		0.10	0.050	mg/L		08/22/13 09:10	09/08/13 23:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/08/13 23:23	1
Chromium	0.075		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:23	1
Cobalt	0.021	J	0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 23:23	1
Iron	77		0.20	0.20	mg/L		08/22/13 09:10	09/08/13 23:23	1
Lead	0.036		0.0075	0.0050	mg/L		08/22/13 09:10	09/08/13 23:23	1
Manganese	0.30		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:23	1
Nickel	0.075		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:23	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/08/13 23:23	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 23:23	1
Zinc	0.96	B	0.10	0.020	mg/L		08/22/13 09:10	09/08/13 23:23	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 08:45	09/11/13 16:29	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 18:42	1
Thallium	0.0023		0.0020	0.0020	mg/L		08/22/13 09:10	08/27/13 12:32	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 12:12	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0084	mg/Kg	☼	08/21/13 13:00	08/22/13 10:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.58		0.200	0.200	SU			08/29/13 13:02	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B04 DUP

Lab Sample ID: 500-61265-16

Date Collected: 08/15/13 09:10

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0055		0.0040	0.0017	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Bromoform	<0.0040		0.0040	0.00093	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Chloromethane	<0.0040		0.0040	0.00085	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
1,1-Dichloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
1,1-Dichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Ethylbenzene	<0.0040		0.0040	0.00081	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0011	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00067	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Tetrachloroethene	<0.0040		0.0040	0.00062	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Trichloroethene	<0.0040		0.0040	0.00067	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Vinyl chloride	<0.0040		0.0040	0.00085	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	08/15/13 09:10	08/21/13 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/15/13 09:10	08/21/13 18:02	1
Dibromofluoromethane	102		75 - 120	08/15/13 09:10	08/21/13 18:02	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/15/13 09:10	08/21/13 18:02	1
Toluene-d8 (Surr)	94		75 - 122	08/15/13 09:10	08/21/13 18:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B04 DUP

Lab Sample ID: 500-61265-16

Date Collected: 08/15/13 09:10

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Acenaphthene	0.017	J	0.036	0.011	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Fluorene	0.015	J	0.036	0.0083	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Phenanthrene	0.19		0.036	0.015	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Anthracene	0.038		0.036	0.0086	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Carbazole	0.063	J	0.18	0.051	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Fluoranthene	0.22		0.036	0.015	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Pyrene	0.18		0.036	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Benzo[a]anthracene	0.088		0.036	0.0076	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B04 DUP

Lab Sample ID: 500-61265-16

Date Collected: 08/15/13 09:10

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.12		0.036	0.0082	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Benzo[b]fluoranthene	0.096		0.036	0.0071	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Benzo[k]fluoranthene	0.084		0.036	0.0087	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Benzo[a]pyrene	0.092		0.036	0.0066	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Indeno[1,2,3-cd]pyrene	0.052		0.036	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Dibenz(a,h)anthracene	0.020	J	0.036	0.010	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Benzo[g,h,i]perylene	0.064		0.036	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/26/13 07:24	08/30/13 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	45		25 - 110				08/26/13 07:24	08/30/13 14:59	1
Phenol-d5	48		31 - 110				08/26/13 07:24	08/30/13 14:59	1
Nitrobenzene-d5	52		25 - 115				08/26/13 07:24	08/30/13 14:59	1
2-Fluorobiphenyl	69		25 - 119				08/26/13 07:24	08/30/13 14:59	1
2,4,6-Tribromophenol	67		35 - 137				08/26/13 07:24	08/30/13 14:59	1
Terphenyl-d14	85		36 - 134				08/26/13 07:24	08/30/13 14:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Arsenic	8.0		0.52	0.10	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Barium	16		0.52	0.056	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Beryllium	0.39		0.21	0.018	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Boron	7.0		2.6	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Cadmium	0.17		0.10	0.013	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Calcium	70000	B	100	28	mg/Kg	☼	08/16/13 08:00	09/09/13 15:40	10
Chromium	10		0.52	0.060	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Cobalt	7.8	B	0.26	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Copper	25		0.52	0.046	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Iron	16000		10	4.3	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Lead	13	B	0.26	0.077	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Magnesium	27000	B	5.2	1.1	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Manganese	360	B	0.52	0.028	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Nickel	18		0.52	0.051	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Potassium	1600		26	1.6	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Selenium	0.20	J	0.52	0.18	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Sodium	710		52	7.0	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Thallium	0.78		0.52	0.22	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Vanadium	12		0.26	0.038	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Zinc	52		1.0	0.21	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1
Aluminum	5700	B	10	0.96	mg/Kg	☼	08/16/13 08:00	09/09/13 04:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.68		0.10	0.050	mg/L		09/11/13 08:45	09/12/13 05:45	1
Iron	<0.20		0.20	0.20	mg/L		09/11/13 08:45	09/12/13 05:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B04 DUP

Lab Sample ID: 500-61265-16

Date Collected: 08/15/13 09:10

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 08:45	09/12/13 05:45	1
Manganese	1.4		0.025	0.010	mg/L		09/11/13 08:45	09/12/13 05:45	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.92	B	0.50	0.010	mg/L		08/22/13 09:10	09/08/13 23:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/22/13 09:10	09/08/13 23:44	1
Boron	2.1		0.10	0.050	mg/L		08/22/13 09:10	09/08/13 23:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/08/13 23:44	1
Chromium	0.053		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:44	1
Cobalt	0.015	J	0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 23:44	1
Iron	56		0.20	0.20	mg/L		08/22/13 09:10	09/08/13 23:44	1
Lead	0.029		0.0075	0.0050	mg/L		08/22/13 09:10	09/08/13 23:44	1
Manganese	0.23		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:44	1
Nickel	0.054		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:44	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/08/13 23:44	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 23:44	1
Zinc	1.1	B	0.10	0.020	mg/L		08/22/13 09:10	09/08/13 23:44	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 08:45	09/11/13 16:29	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 18:45	1
Thallium	0.0021		0.0020	0.0020	mg/L		08/22/13 09:10	08/27/13 12:36	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 12:14	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0085	mg/Kg	☼	08/21/13 13:00	08/22/13 10:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.200	0.200	SU			08/29/13 13:26	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B05

Lab Sample ID: 500-61265-17

Date Collected: 08/15/13 09:20

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 89.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0032	J	0.0041	0.0018	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Benzene	<0.0041		0.0041	0.00057	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Chloromethane	<0.0041		0.0041	0.00087	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
1,1-Dichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
1,2-Dichloropropane	<0.0041		0.0041	0.00063	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Vinyl chloride	<0.0041		0.0041	0.00087	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1
Xylenes, Total	<0.0083		0.0083	0.00037	mg/Kg	☼	08/15/13 09:20	08/21/13 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	08/15/13 09:20	08/21/13 18:25	1
Dibromofluoromethane	109		75 - 120	08/15/13 09:20	08/21/13 18:25	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/15/13 09:20	08/21/13 18:25	1
Toluene-d8 (Surr)	94		75 - 122	08/15/13 09:20	08/21/13 18:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B05

Lab Sample ID: 500-61265-17

Date Collected: 08/15/13 09:20

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 89.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Naphthalene	<0.035		0.035	0.0069	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
3-Nitroaniline	<0.35		0.35	0.069	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Acenaphthylene	<0.035		0.035	0.0082	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.087	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Anthracene	<0.035		0.035	0.0084	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Benzo[a]anthracene	<0.035		0.035	0.0075	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B05

Lab Sample ID: 500-61265-17

Date Collected: 08/15/13 09:20

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 89.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0081	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Benzo[b]fluoranthene	0.0096	J	0.035	0.0069	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Benzo[k]fluoranthene	<0.035		0.035	0.0085	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Benzo[a]pyrene	0.0092	J	0.035	0.0065	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Dibenz(a,h)anthracene	<0.035		0.035	0.010	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	08/26/13 07:24	08/30/13 15:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110				08/26/13 07:24	08/30/13 15:21	1
Phenol-d5	46		31 - 110				08/26/13 07:24	08/30/13 15:21	1
Nitrobenzene-d5	64		25 - 115				08/26/13 07:24	08/30/13 15:21	1
2-Fluorobiphenyl	76		25 - 119				08/26/13 07:24	08/30/13 15:21	1
2,4,6-Tribromophenol	88		35 - 137				08/26/13 07:24	08/30/13 15:21	1
Terphenyl-d14	92		36 - 134				08/26/13 07:24	08/30/13 15:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Arsenic	7.5		0.53	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Barium	53		0.53	0.057	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Beryllium	0.60		0.21	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Boron	8.3		2.7	0.11	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Cadmium	0.20		0.11	0.013	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Calcium	85000	B	110	29	mg/Kg	☼	08/16/13 08:00	09/09/13 15:46	10
Chromium	15		0.53	0.062	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Cobalt	9.5	B	0.27	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Copper	21		0.53	0.047	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Iron	18000		11	4.4	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Lead	11	B	0.27	0.079	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Magnesium	25000	B	5.3	1.1	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Manganese	410	B	0.53	0.029	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Nickel	25		0.53	0.052	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Potassium	1900		27	1.6	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Sodium	180		53	7.1	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Thallium	0.54		0.53	0.22	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Vanadium	18		0.27	0.039	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Zinc	43		1.1	0.21	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1
Aluminum	9200	B	11	0.98	mg/Kg	☼	08/16/13 08:00	09/09/13 04:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 08:45	09/12/13 05:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Client Sample ID: 846D-95-B05

Lab Sample ID: 500-61265-17

Date Collected: 08/15/13 09:20

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.77	B	0.50	0.010	mg/L		08/22/13 09:10	09/08/13 23:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/22/13 09:10	09/08/13 23:51	1
Boron	1.6		0.10	0.050	mg/L		08/22/13 09:10	09/08/13 23:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/08/13 23:51	1
Chromium	0.016	J	0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:51	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 23:51	1
Iron	11		0.20	0.20	mg/L		08/22/13 09:10	09/08/13 23:51	1
Lead	0.0067	J	0.0075	0.0050	mg/L		08/22/13 09:10	09/08/13 23:51	1
Manganese	0.060		0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:51	1
Nickel	0.012	J	0.025	0.010	mg/L		08/22/13 09:10	09/08/13 23:51	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/08/13 23:51	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/08/13 23:51	1
Zinc	0.71	B	0.10	0.020	mg/L		08/22/13 09:10	09/08/13 23:51	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 18:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/22/13 09:10	08/27/13 12:46	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000026	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 12:16	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.017	0.0082	mg/Kg	☆	08/21/13 13:00	08/22/13 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.66		0.200	0.200	SU			08/29/13 13:49	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-7

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12720 and 12738 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60016 Longitude: +87.92867
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60016 Longitude: -87.92867

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-96-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-96. SEE FIGURE 17 AND TABLE 3ca OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61605-7

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

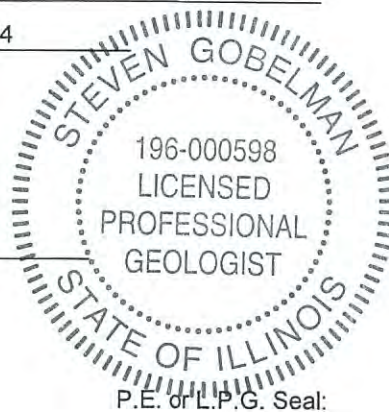
Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14
 Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-96

Commercial Businesses

Sample ID	846D-96-B01	¹ Most Stringent MAC ² Outside a Populated Area ³ Populated non-Metropolitan Statistical Area ⁴ Within Chicago Corporate Limits ⁵ Metropolitan Statistical Area ⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-8	
Sample Date	8/21/2013	
PID	0	
Sample pH	8.22	
Matrix	Soil	MAC

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61605-7
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/13/2013 10:37:42 AM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-7

Client Sample ID: 846D-96-B01

Lab Sample ID: 500-61605-19

Date Collected: 08/21/13 08:35

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 87.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.0045	0.0019	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00073	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	08/21/13 08:35	08/27/13 06:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	08/21/13 08:35	08/27/13 06:58	1
Dibromofluoromethane	103		75 - 120	08/21/13 08:35	08/27/13 06:58	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/21/13 08:35	08/27/13 06:58	1
Toluene-d8 (Surr)	92		75 - 122	08/21/13 08:35	08/27/13 06:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-7

Client Sample ID: 846D-96-B01

Lab Sample ID: 500-61605-19

Date Collected: 08/21/13 08:35

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Acenaphthylene	<0.037		0.037	0.0087	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Pentachlorophenol	<0.76	*	0.76	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Anthracene	<0.037		0.037	0.0089	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Fluoranthene	0.015	J	0.037	0.015	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Pyrene	0.016	J	0.037	0.014	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Benzo[a]anthracene	0.016	J	0.037	0.0079	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-7

Client Sample ID: 846D-96-B01

Lab Sample ID: 500-61605-19

Date Collected: 08/21/13 08:35

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.037	0.0085	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Benzo[b]fluoranthene	0.017	J	0.037	0.0073	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Benzo[k]fluoranthene	0.016	J	0.037	0.0090	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Benzo[a]pyrene	0.018	J	0.037	0.0069	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Indeno[1,2,3-cd]pyrene	0.018	J	0.037	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Dibenz(a,h)anthracene	0.015	J	0.037	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Benzo[g,h,i]perylene	0.020	J	0.037	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	09/03/13 07:37	09/04/13 21:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	33		25 - 110				09/03/13 07:37	09/04/13 21:12	1
Phenol-d5	39		31 - 110				09/03/13 07:37	09/04/13 21:12	1
Nitrobenzene-d5	38		25 - 115				09/03/13 07:37	09/04/13 21:12	1
2-Fluorobiphenyl	51		25 - 119				09/03/13 07:37	09/04/13 21:12	1
2,4,6-Tribromophenol	49		35 - 137				09/03/13 07:37	09/04/13 21:12	1
Terphenyl-d14	58		36 - 134				09/03/13 07:37	09/04/13 21:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Arsenic	9.7		0.54	0.11	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Barium	39	B	0.54	0.058	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Beryllium	0.56		0.22	0.019	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Boron	9.1		2.7	0.11	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Cadmium	0.090	J B	0.11	0.014	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Calcium	53000	B	11	2.9	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Chromium	14		0.54	0.062	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Cobalt	12	B	0.27	0.019	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Copper	27		0.54	0.048	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Iron	20000		11	4.4	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Lead	13	B	0.27	0.080	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Magnesium	28000	B	5.4	1.1	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Manganese	500	B	0.54	0.029	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Nickel	29	B	0.54	0.053	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Potassium	1800	B	27	1.6	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Selenium	0.52	J	0.54	0.19	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Sodium	280	B	54	7.2	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Thallium	0.41	J	0.54	0.23	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Vanadium	18	B	0.27	0.040	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Zinc	49	B	1.1	0.22	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1
Aluminum	8300		11	0.99	mg/Kg	☼	08/22/13 16:00	09/12/13 07:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/12/13 07:30	09/12/13 16:48	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/12/13 07:30	09/12/13 16:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-7

Client Sample ID: 846D-96-B01

Lab Sample ID: 500-61605-19

Date Collected: 08/21/13 08:35

Matrix: Solid

Date Received: 08/22/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	4.1		0.025	0.010	mg/L		09/12/13 07:30	09/12/13 16:48	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.79	B	0.50	0.010	mg/L		08/28/13 10:00	09/10/13 00:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/10/13 00:22	1
Boron	1.2		0.10	0.050	mg/L		08/28/13 10:00	09/10/13 00:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/10/13 00:22	1
Chromium	0.043		0.025	0.010	mg/L		08/28/13 10:00	09/10/13 00:22	1
Cobalt	0.020	J	0.025	0.0050	mg/L		08/28/13 10:00	09/10/13 00:22	1
Iron	42		0.20	0.20	mg/L		08/28/13 10:00	09/10/13 00:22	1
Lead	0.022		0.0075	0.0050	mg/L		08/28/13 10:00	09/10/13 00:22	1
Manganese	0.71		0.025	0.010	mg/L		08/28/13 10:00	09/10/13 00:22	1
Nickel	0.052		0.025	0.010	mg/L		08/28/13 10:00	09/10/13 00:22	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/10/13 00:22	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/10/13 00:22	1
Zinc	0.62		0.10	0.020	mg/L		08/28/13 10:00	09/10/13 00:22	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 20:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 20:21	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	J	0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 12:01	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0084	mg/Kg	☼	08/26/13 13:30	08/27/13 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.22		0.200	0.200	SU			09/03/13 13:01	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-7

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>US6/IL7 Willy & Cook Co</u> Project No.: <u>IDOT 2013 - 023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other KM, <u>WJ</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-66605</u> Sample Temp: _____												
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
ANALYSES		Comments <u>0-71</u>													
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization
20	846D-100-B01	8/21/13	8:10	S	X	X					X	X	X	X	
Relinquished by: <u>Alan A. Yee (AEZ)</u> Date/Time: <u>8/21/13 3:35</u> Received by: <u>[Signature]</u> Date/Time: <u>8/21/13 16:18</u>															
Relinquished by: <u>[Signature]</u> Date/Time: _____ Received by: _____ Date/Time: _____															
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____															



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12649 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59993 Longitude: -87.92582
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 1978075013 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59993 Longitude: -87.92582

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 846D-98-B02 AND -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-98. SEE FIGURES 17 & 18, AND TABLE 3cc OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61265-8

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

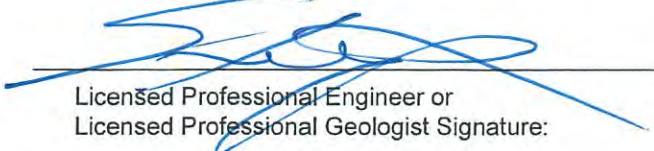
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

1/13/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-61265-8

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/12/2013 1:05:56 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-8

Client Sample ID: 846D-98-B02

Lab Sample ID: 500-61265-19

Date Collected: 08/15/13 13:55

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.041		0.0044	0.0019	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	08/15/13 13:55	08/21/13 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	08/15/13 13:55	08/21/13 19:10	1
Dibromofluoromethane	104		75 - 120	08/15/13 13:55	08/21/13 19:10	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/15/13 13:55	08/21/13 19:10	1
Toluene-d8 (Surr)	93		75 - 122	08/15/13 13:55	08/21/13 19:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-8

Client Sample ID: 846D-98-B02

Lab Sample ID: 500-61265-19

Date Collected: 08/15/13 13:55

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-8

Client Sample ID: 846D-98-B02

Lab Sample ID: 500-61265-19

Date Collected: 08/15/13 13:55

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.0087	J	0.037	0.0085	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Benzo[b]fluoranthene	0.013	J	0.037	0.0073	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Benzo[a]pyrene	0.0081	J	0.037	0.0068	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/26/13 07:24	08/30/13 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	25		25 - 110	08/26/13 07:24	08/30/13 16:07	1
Phenol-d5	23	X	31 - 110	08/26/13 07:24	08/30/13 16:07	1
Nitrobenzene-d5	21	X	25 - 115	08/26/13 07:24	08/30/13 16:07	1
2-Fluorobiphenyl	36		25 - 119	08/26/13 07:24	08/30/13 16:07	1
2,4,6-Tribromophenol	48		35 - 137	08/26/13 07:24	08/30/13 16:07	1
Terphenyl-d14	58		36 - 134	08/26/13 07:24	08/30/13 16:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.1		2.1	0.85	mg/Kg	☼	08/29/13 11:45	08/30/13 11:08	1
Arsenic	10		1.1	0.21	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Barium	34		1.1	0.11	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Beryllium	0.51		0.42	0.037	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Boron	9.4		5.3	0.22	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Cadmium	0.30	B	0.21	0.027	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Calcium	47000	B	21	5.7	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Chromium	14		1.1	0.12	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Cobalt	12		0.53	0.038	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Copper	27	B	1.1	0.094	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Iron	20000		21	8.7	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Lead	16		0.53	0.16	mg/Kg	☼	08/29/13 11:45	08/30/13 11:08	1
Magnesium	25000	B	11	2.2	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Manganese	430	B	1.1	0.057	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Nickel	31		1.1	0.10	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Potassium	1700	B	53	3.2	mg/Kg	☼	08/29/13 11:45	08/30/13 11:08	1
Selenium	<1.1		1.1	0.38	mg/Kg	☼	08/29/13 11:45	08/30/13 11:08	1
Silver	<0.53		0.53	0.038	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Sodium	610		110	14	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Thallium	<1.1		1.1	0.45	mg/Kg	☼	08/29/13 11:45	08/30/13 11:08	1
Vanadium	17		0.53	0.078	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Zinc	65	B	2.1	0.43	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1
Aluminum	8200		21	1.9	mg/Kg	☼	08/29/13 11:45	08/30/13 01:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 08:45	09/12/13 06:09	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 08:45	09/12/13 06:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-8

Client Sample ID: 846D-98-B02

Lab Sample ID: 500-61265-19

Date Collected: 08/15/13 13:55

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.36		0.025	0.010	mg/L		09/11/13 08:45	09/12/13 06:09	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.96	B	0.50	0.010	mg/L		08/22/13 09:10	09/09/13 00:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/22/13 09:10	09/09/13 00:03	1
Boron	1.9		0.10	0.050	mg/L		08/22/13 09:10	09/09/13 00:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 09:10	09/09/13 00:03	1
Chromium	0.059		0.025	0.010	mg/L		08/22/13 09:10	09/09/13 00:03	1
Cobalt	0.021	J	0.025	0.0050	mg/L		08/22/13 09:10	09/09/13 00:03	1
Iron	64		0.20	0.20	mg/L		08/22/13 09:10	09/09/13 00:03	1
Lead	0.030		0.0075	0.0050	mg/L		08/22/13 09:10	09/09/13 00:03	1
Manganese	0.30		0.025	0.010	mg/L		08/22/13 09:10	09/09/13 00:03	1
Nickel	0.072		0.025	0.010	mg/L		08/22/13 09:10	09/09/13 00:03	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 09:10	09/09/13 00:03	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 09:10	09/09/13 00:03	1
Zinc	0.99	B	0.10	0.020	mg/L		08/22/13 09:10	09/09/13 00:03	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 08:45	09/11/13 16:30	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 09:10	08/22/13 18:56	1
Thallium	0.0021		0.0020	0.0020	mg/L		08/22/13 09:10	08/27/13 12:53	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 12:19	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0084	mg/Kg	☼	08/21/13 13:00	08/22/13 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU			08/29/13 14:35	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-8

Client Sample ID: 846D-98-B03

Lab Sample ID: 500-61265-20

Date Collected: 08/15/13 14:10

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 79.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.0051	0.0022	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Benzene	<0.0051		0.0051	0.00069	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Carbon disulfide	<0.0051		0.0051	0.00075	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Carbon tetrachloride	<0.0051		0.0051	0.00092	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Chlorobenzene	<0.0051		0.0051	0.00051	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Chloroform	<0.0051		0.0051	0.00058	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00066	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Dibromochloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00066	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00083	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Styrene	<0.0051		0.0051	0.00066	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Tetrachloroethene	<0.0051		0.0051	0.00077	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Trichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Vinyl acetate	<0.0051		0.0051	0.00079	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	08/15/13 14:10	08/21/13 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/15/13 14:10	08/21/13 19:33	1
Dibromofluoromethane	104		75 - 120	08/15/13 14:10	08/21/13 19:33	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/15/13 14:10	08/21/13 19:33	1
Toluene-d8 (Surr)	95		75 - 122	08/15/13 14:10	08/21/13 19:33	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.065	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-8

Client Sample ID: 846D-98-B03

Lab Sample ID: 500-61265-20

Date Collected: 08/15/13 14:10

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 79.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.045	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
4-Chloroaniline	<0.83		0.83	0.12	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Acenaphthylene	<0.041		0.041	0.0094	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Diethyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Phenanthrene	0.10		0.041	0.017	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Anthracene	0.010	J	0.041	0.0097	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Fluoranthene	0.21		0.041	0.017	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Pyrene	0.19		0.041	0.015	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Benzo[a]anthracene	0.11		0.041	0.0086	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-8

Client Sample ID: 846D-98-B03

Lab Sample ID: 500-61265-20

Date Collected: 08/15/13 14:10

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 79.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.17		0.041	0.0093	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Benzo[b]fluoranthene	0.16		0.041	0.0080	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Benzo[k]fluoranthene	0.074		0.041	0.0098	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Benzo[a]pyrene	0.13		0.041	0.0075	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Indeno[1,2,3-cd]pyrene	0.079		0.041	0.014	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Dibenz(a,h)anthracene	0.042		0.041	0.011	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
Benzo[g,h,i]perylene	0.098		0.041	0.014	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	08/26/13 07:24	08/30/13 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	39		25 - 110	08/26/13 07:24	08/30/13 16:30	1
Phenol-d5	46		31 - 110	08/26/13 07:24	08/30/13 16:30	1
Nitrobenzene-d5	42		25 - 115	08/26/13 07:24	08/30/13 16:30	1
2-Fluorobiphenyl	61		25 - 119	08/26/13 07:24	08/30/13 16:30	1
2,4,6-Tribromophenol	85		35 - 137	08/26/13 07:24	08/30/13 16:30	1
Terphenyl-d14	71		36 - 134	08/26/13 07:24	08/30/13 16:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.1		2.1	0.85	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Arsenic	8.9		1.1	0.21	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Barium	62		1.1	0.11	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Beryllium	0.55		0.42	0.037	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Boron	9.4		5.3	0.22	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Cadmium	0.45	B	0.21	0.027	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Calcium	48000	B	21	5.7	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Chromium	18		1.1	0.12	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Cobalt	11		0.53	0.038	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Copper	24	B	1.1	0.093	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Iron	19000		21	8.7	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Lead	72		0.53	0.16	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Magnesium	31000	B	11	2.2	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Manganese	600	B	1.1	0.057	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Nickel	25		1.1	0.10	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Potassium	1500		53	3.2	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Selenium	0.57	J	1.1	0.37	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Silver	<0.53		0.53	0.038	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Sodium	950		110	14	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Thallium	0.67	J	1.1	0.44	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Vanadium	20		0.53	0.078	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Zinc	87	B	2.1	0.43	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1
Aluminum	8800		21	1.9	mg/Kg	☼	08/29/13 11:45	08/30/13 01:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.21		0.20	0.20	mg/L		09/11/13 08:45	09/12/13 06:14	1
Lead	0.022		0.0075	0.0050	mg/L		09/11/13 08:45	09/12/13 06:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-8

Client Sample ID: 846D-98-B03

Lab Sample ID: 500-61265-20

Date Collected: 08/15/13 14:10

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	8.0		0.025	0.010	mg/L		09/11/13 08:45	09/12/13 06:14	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.98		0.50	0.010	mg/L		08/22/13 08:35	09/09/13 00:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/22/13 08:35	09/09/13 00:24	1
Boron	1.1		0.10	0.050	mg/L		08/22/13 08:35	09/09/13 00:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 08:35	09/09/13 00:24	1
Chromium	0.059		0.025	0.010	mg/L		08/22/13 08:35	09/09/13 00:24	1
Cobalt	0.025		0.025	0.0050	mg/L		08/22/13 08:35	09/09/13 00:24	1
Iron	49		0.20	0.20	mg/L		08/22/13 08:35	09/09/13 00:24	1
Lead	0.17		0.0075	0.0050	mg/L		08/22/13 08:35	09/09/13 00:24	1
Manganese	0.89		0.025	0.010	mg/L		08/22/13 08:35	09/09/13 00:24	1
Nickel	0.058		0.025	0.010	mg/L		08/22/13 08:35	09/09/13 00:24	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 08:35	09/09/13 00:24	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 08:35	09/09/13 00:24	1
Zinc	0.66		0.10	0.020	mg/L		08/22/13 08:35	09/09/13 00:24	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0035	J	0.0060	0.0030	mg/L		08/22/13 08:35	08/22/13 19:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/22/13 08:35	08/27/13 15:24	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000080	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 10:10	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.020	0.0093	mg/Kg	☼	08/21/13 13:00	08/22/13 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.73		0.200	0.200	SU			08/29/13 14:59	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-8

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com	Project Information Project Name: <u>US6/IL7/Willie + Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>RM</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-61265</u> Sample Temp.: <u>36.3, 9.37</u> Matrix Key: <ul style="list-style-type: none"> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other 														
ANALYSES																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments	
18	846D-98-B01	8/15/13	1:50	S	X	X					X	X	X	X		0-3'	
19	846D-98-B02	↓	1:55	S	X	X					X	X	X	X		0-3'	
20	846D-98-B03	↑	2:10	S	X	X					X	X	X	X		0-3'	
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																	
Relinquished by:	 Ken A. Weber (AEE)										Date/Time	8/15/13	3:08	Received by:	 Date/Time 8/15/13 1:08		
Relinquished by:	 Date/Time 8/15/13 1:50										Date/Time	8/15/13	1:50	Received by:	 Date/Time 8/15/13 1:50		
Relinquished by:	 Date/Time										Date/Time			Received by:	 Date/Time		



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12640 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60019 Longitude: -87.92653
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 1978075013 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)
Latitude: 41.60019 Longitude: -87.92653

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-99-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-99. SEE FIGURE 17 AND TABLE 3cd OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61359-6

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

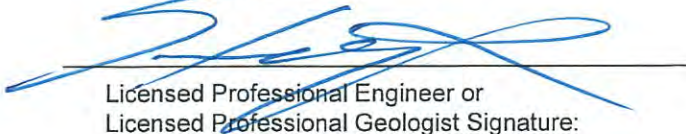
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

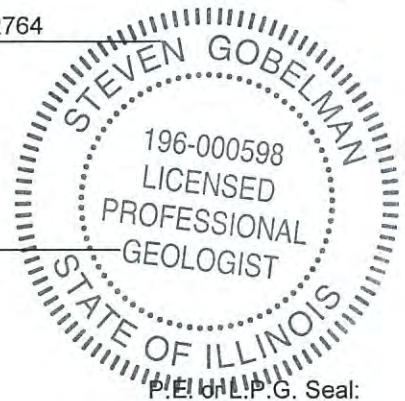
Phone: 217-785-4246

Steven Gobelman

Printed Name:


Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-99

Bump and Grind Auto Body

Sample ID	846D-99-B01	846D-99-B02	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-8	0-8						
Sample Date	8/16/2013	8/16/2013						
PID	0	0						
Sample pH	7.95	8.36						
Matrix	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61359-6
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/12/2013 1:09:37 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-6

Client Sample ID: 846D-99-B01

Lab Sample ID: 500-61359-8

Date Collected: 08/16/13 09:40

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 84.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0090		0.0048	0.0021	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
2-Butanone (MEK)	<0.0048		0.0048	0.0018	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Chloroform	<0.0048		0.0048	0.00056	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
1,1-Dichloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
1,1,1-Dichloroethane	<0.0048		0.0048	0.00078	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Ethylbenzene	<0.0048		0.0048	0.00098	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Toluene	<0.0048		0.0048	0.00068	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00087	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
1,1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	08/16/13 09:40	08/20/13 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	08/16/13 09:40	08/20/13 20:26	1
Dibromofluoromethane	106		75 - 120	08/16/13 09:40	08/20/13 20:26	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/16/13 09:40	08/20/13 20:26	1
Toluene-d8 (Surr)	95		75 - 122	08/16/13 09:40	08/20/13 20:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-6

Client Sample ID: 846D-99-B01

Lab Sample ID: 500-61359-8

Date Collected: 08/16/13 09:40

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Hexachlorobenzene	<0.075		0.075	0.0074	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-6

Client Sample ID: 846D-99-B01

Lab Sample ID: 500-61359-8

Date Collected: 08/16/13 09:40

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/28/13 20:04	08/31/13 05:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	22	X	25 - 110	08/28/13 20:04	08/31/13 05:03	1
Phenol-d5	17	X	31 - 110	08/28/13 20:04	08/31/13 05:03	1
Nitrobenzene-d5	20	X	25 - 115	08/28/13 20:04	08/31/13 05:03	1
2-Fluorobiphenyl	26		25 - 119	08/28/13 20:04	08/31/13 05:03	1
2,4,6-Tribromophenol	30	X	35 - 137	08/28/13 20:04	08/31/13 05:03	1
Terphenyl-d14	76		36 - 134	08/28/13 20:04	08/31/13 05:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Arsenic	8.1		0.55	0.11	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Barium	61		0.55	0.059	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Beryllium	0.62		0.22	0.019	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Boron	4.7		2.7	0.11	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Cadmium	0.58		0.11	0.014	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Calcium	26000	B	11	3.0	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Chromium	15		0.55	0.063	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Cobalt	9.8		0.27	0.020	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Copper	23		0.55	0.049	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Iron	20000	B	11	4.5	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Lead	13		0.27	0.082	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Magnesium	19000	B	5.5	1.1	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Manganese	420	B	0.55	0.030	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Nickel	26	B	0.55	0.054	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Potassium	1300		27	1.6	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Selenium	0.30	J	0.55	0.19	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Sodium	100		55	7.3	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Vanadium	18		0.27	0.040	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Zinc	46		1.1	0.22	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1
Aluminum	9400		11	1.0	mg/Kg	☼	08/20/13 16:00	08/30/13 04:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 07:45	09/12/13 03:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-6

Client Sample ID: 846D-99-B01

Lab Sample ID: 500-61359-8

Date Collected: 08/16/13 09:40

Matrix: Solid

Date Received: 08/16/13 15:20

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59	B	0.50	0.010	mg/L		08/23/13 08:29	09/08/13 18:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/23/13 08:29	09/08/13 18:30	1
Boron	0.80		0.10	0.050	mg/L		08/23/13 08:29	09/08/13 18:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/23/13 08:29	09/08/13 18:30	1
Chromium	<0.025		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 18:30	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 18:30	1
Iron	5.4		0.20	0.20	mg/L		08/23/13 08:29	09/08/13 18:30	1
Lead	0.0059	J	0.0075	0.0050	mg/L		08/23/13 08:29	09/08/13 18:30	1
Manganese	0.051		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 18:30	1
Nickel	<0.025		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 18:30	1
Selenium	<0.050		0.050	0.010	mg/L		08/23/13 08:29	09/08/13 18:30	1
Silver	<0.025		0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 18:30	1
Zinc	0.38		0.10	0.020	mg/L		08/23/13 08:29	09/08/13 18:30	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/23/13 08:29	08/26/13 18:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/23/13 08:29	08/26/13 18:43	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/23/13 15:00	08/26/13 13:03	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.020	0.0093	mg/Kg	☆	08/21/13 13:00	08/22/13 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95		0.200	0.200	SU			08/29/13 16:54	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-6

Client Sample ID: 846D-99-B02

Lab Sample ID: 500-61359-9

Date Collected: 08/16/13 09:30

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 87.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0046		0.0044	0.0019	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	08/16/13 09:30	08/20/13 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/16/13 09:30	08/20/13 20:48	1
Dibromofluoromethane	102		75 - 120	08/16/13 09:30	08/20/13 20:48	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	08/16/13 09:30	08/20/13 20:48	1
Toluene-d8 (Surr)	94		75 - 122	08/16/13 09:30	08/20/13 20:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-6

Client Sample ID: 846D-99-B02

Lab Sample ID: 500-61359-9

Date Collected: 08/16/13 09:30

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-6

Client Sample ID: 846D-99-B02

Lab Sample ID: 500-61359-9

Date Collected: 08/16/13 09:30

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/28/13 20:04	08/31/13 05:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	19	X	25 - 110	08/28/13 20:04	08/31/13 05:21	1
Phenol-d5	16	X	31 - 110	08/28/13 20:04	08/31/13 05:21	1
Nitrobenzene-d5	20	X	25 - 115	08/28/13 20:04	08/31/13 05:21	1
2-Fluorobiphenyl	23	X	25 - 119	08/28/13 20:04	08/31/13 05:21	1
2,4,6-Tribromophenol	22	X	35 - 137	08/28/13 20:04	08/31/13 05:21	1
Terphenyl-d14	68		36 - 134	08/28/13 20:04	08/31/13 05:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Arsenic	8.0		0.52	0.10	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Barium	28		0.52	0.056	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Beryllium	0.47		0.21	0.018	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Boron	5.5		2.6	0.11	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Cadmium	0.63		0.10	0.013	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Calcium	41000	B	10	2.8	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Chromium	13		0.52	0.061	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Cobalt	9.5		0.26	0.019	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Copper	22		0.52	0.046	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Iron	18000	B	10	4.3	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Lead	12		0.26	0.078	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Magnesium	23000	B	5.2	1.1	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Manganese	390	B	0.52	0.028	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Nickel	26	B	0.52	0.051	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Potassium	1400		26	1.6	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Selenium	<0.52		0.52	0.19	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Sodium	130		52	7.0	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Thallium	0.34	J	0.52	0.22	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Vanadium	14		0.26	0.039	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Zinc	47		1.0	0.21	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1
Aluminum	7500		10	0.96	mg/Kg	☼	08/20/13 16:00	08/30/13 04:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 07:45	09/12/13 03:24	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 07:45	09/12/13 03:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-6

Client Sample ID: 846D-99-B02

Lab Sample ID: 500-61359-9

Date Collected: 08/16/13 09:30

Matrix: Solid

Date Received: 08/16/13 15:20

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52	B	0.50	0.010	mg/L		08/23/13 08:29	09/08/13 18:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/23/13 08:29	09/08/13 18:36	1
Boron	0.83		0.10	0.050	mg/L		08/23/13 08:29	09/08/13 18:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/23/13 08:29	09/08/13 18:36	1
Chromium	0.020	J	0.025	0.010	mg/L		08/23/13 08:29	09/08/13 18:36	1
Cobalt	0.0050	J	0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 18:36	1
Iron	18		0.20	0.20	mg/L		08/23/13 08:29	09/08/13 18:36	1
Lead	0.012		0.0075	0.0050	mg/L		08/23/13 08:29	09/08/13 18:36	1
Manganese	0.11		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 18:36	1
Nickel	0.021	J	0.025	0.010	mg/L		08/23/13 08:29	09/08/13 18:36	1
Selenium	<0.050		0.050	0.010	mg/L		08/23/13 08:29	09/08/13 18:36	1
Silver	<0.025		0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 18:36	1
Zinc	0.44		0.10	0.020	mg/L		08/23/13 08:29	09/08/13 18:36	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/23/13 08:29	08/26/13 18:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/23/13 08:29	08/26/13 18:47	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/23/13 15:00	08/26/13 13:04	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0085	mg/Kg	☆	08/21/13 13:00	08/22/13 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU			08/29/13 16:47	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-6

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
12622 - 12636 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60019 Longitude: -87.92599
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner
Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

Site Operator
Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)
 Latitude: 41.60019 Longitude: -87.92599

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-100-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-100. SEE FIGURE 17 AND TABLE 3ce OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61605-8

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

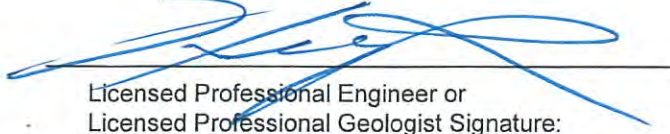
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/15/11
 Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-100
Strip Mail

Sample ID	846D-100-B01												
Sample Depth (ft)	0-7												
Sample Date	8/21/2013												
PID	0												
Sample pH	6.6												
Matrix	Soil												
No Contaminants of Concern Noted.		¹ Most Stringent MAC		² Outside a Populated Area MAC		³ Populated non-Metropolitan Statistical Area MAC		⁴ Within Chicago Corporate Limits MAC		⁵ Metropolitan Statistical Area MAC		⁶ Class I Soil TCLP/SPLP Comparisons Only	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61605-8
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/13/2013 10:38:18 AM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-8

Client Sample ID: 846D-100-B01

Lab Sample ID: 500-61605-20

Date Collected: 08/21/13 08:10

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.036		0.0049	0.0021	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
2-Butanone (MEK)	0.0044	J	0.0049	0.0018	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	08/21/13 08:10	08/27/13 07:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/21/13 08:10	08/27/13 07:21	1
Dibromofluoromethane	109		75 - 120	08/21/13 08:10	08/27/13 07:21	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/21/13 08:10	08/27/13 07:21	1
Toluene-d8 (Surr)	95		75 - 122	08/21/13 08:10	08/27/13 07:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-8

Client Sample ID: 846D-100-B01

Lab Sample ID: 500-61605-20

Date Collected: 08/21/13 08:10

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Pentachlorophenol	<0.81	*	0.81	0.20	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Benzo[a]anthracene	0.011	J	0.040	0.0084	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-8

Client Sample ID: 846D-100-B01

Lab Sample ID: 500-61605-20

Date Collected: 08/21/13 08:10

Matrix: Solid

Date Received: 08/22/13 06:30

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.040	0.0090	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Benzo[b]fluoranthene	0.017	J	0.040	0.0078	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Benzo[k]fluoranthene	0.011	J	0.040	0.0095	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Benzo[a]pyrene	0.014	J	0.040	0.0073	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Indeno[1,2,3-cd]pyrene	0.017	J	0.040	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Dibenz(a,h)anthracene	0.016	J	0.040	0.011	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
Benzo[g,h,i]perylene	0.018	J	0.040	0.013	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	09/03/13 07:37	09/04/13 21:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	30		25 - 110	09/03/13 07:37	09/04/13 21:30	1
Phenol-d5	36		31 - 110	09/03/13 07:37	09/04/13 21:30	1
Nitrobenzene-d5	35		25 - 115	09/03/13 07:37	09/04/13 21:30	1
2-Fluorobiphenyl	46		25 - 119	09/03/13 07:37	09/04/13 21:30	1
2,4,6-Tribromophenol	50		35 - 137	09/03/13 07:37	09/04/13 21:30	1
Terphenyl-d14	62		36 - 134	09/03/13 07:37	09/04/13 21:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Arsenic	8.8		0.58	0.12	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Barium	40	B	0.58	0.062	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Beryllium	0.63		0.23	0.020	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Boron	8.3		2.9	0.12	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Cadmium	<0.12		0.12	0.015	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Calcium	40000	B	12	3.1	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Chromium	16		0.58	0.067	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Cobalt	9.2	B	0.29	0.021	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Copper	22		0.58	0.051	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Iron	20000		12	4.8	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Lead	13	B	0.29	0.086	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Magnesium	25000	B	5.8	1.2	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Manganese	350	B	0.58	0.031	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Nickel	25	B	0.58	0.057	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Potassium	2000	B	29	1.7	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Selenium	0.75		0.58	0.21	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Sodium	470	B	58	7.8	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Thallium	<0.58		0.58	0.24	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Vanadium	19	B	0.29	0.043	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Zinc	49	B	1.2	0.23	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1
Aluminum	10000		12	1.1	mg/Kg	☼	08/22/13 16:00	09/12/13 07:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/12/13 07:30	09/12/13 16:53	1
Iron	0.33		0.20	0.20	mg/L		09/12/13 07:30	09/12/13 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-8

Client Sample ID: 846D-100-B01

Lab Sample ID: 500-61605-20

Date Collected: 08/21/13 08:10

Matrix: Solid

Date Received: 08/22/13 06:30

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0079		0.0075	0.0050	mg/L		09/12/13 07:30	09/12/13 16:53	1
Manganese	6.7		0.025	0.010	mg/L		09/12/13 07:30	09/12/13 16:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1	B	0.50	0.010	mg/L		08/28/13 10:00	09/10/13 00:28	1
Beryllium	0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	09/10/13 00:28	1
Boron	1.4		0.10	0.050	mg/L		08/28/13 10:00	09/10/13 00:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/28/13 10:00	09/10/13 00:28	1
Chromium	0.076		0.025	0.010	mg/L		08/28/13 10:00	09/10/13 00:28	1
Cobalt	0.028		0.025	0.0050	mg/L		08/28/13 10:00	09/10/13 00:28	1
Iron	67		0.20	0.20	mg/L		08/28/13 10:00	09/10/13 00:28	1
Lead	0.033		0.0075	0.0050	mg/L		08/28/13 10:00	09/10/13 00:28	1
Manganese	1.4		0.025	0.010	mg/L		08/28/13 10:00	09/10/13 00:28	1
Nickel	0.079		0.025	0.010	mg/L		08/28/13 10:00	09/10/13 00:28	1
Selenium	<0.050		0.050	0.010	mg/L		08/28/13 10:00	09/10/13 00:28	1
Silver	<0.025		0.025	0.0050	mg/L		08/28/13 10:00	09/10/13 00:28	1
Zinc	0.76		0.10	0.020	mg/L		08/28/13 10:00	09/10/13 00:28	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/28/13 10:00	08/28/13 20:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/28/13 20:24	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000020	mg/L		08/28/13 15:15	08/29/13 12:07	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0085	mg/Kg	☼	08/26/13 13:30	08/27/13 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.60		0.200	0.200	SU			09/03/13 13:03	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61605-8

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12608 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60019 Longitude: -87.92524
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1978075005 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60019 Longitude: -87.92524

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-101-B02 WAS SAMPLED ADJACENT TO SITE NO. 846D-101. SEE FIGURES 17 & 18, AND TABLE 3cf OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61265-9

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

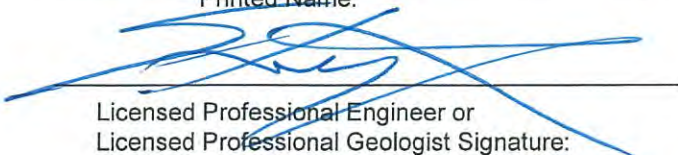
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

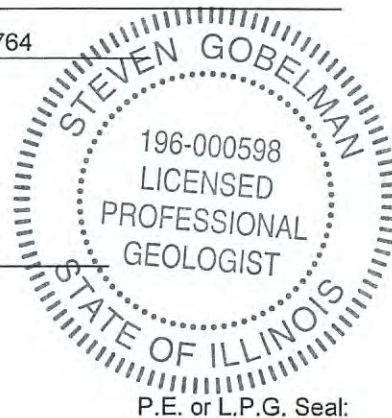
Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/12/14
Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-101

Circle W Tractor

Sample ID	846D-101-B02	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-7						
Sample Date	8/15/2013						
PID	0						
Sample pH	7.95						
Matrix	Soil						
No Contaminants of Concern Noted.							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61265-9
Client Project/Site: IDOT - Gougar - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/12/2013 12:59:33 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-9

Client Sample ID: 846D-101-B02

Lab Sample ID: 500-61265-23

Date Collected: 08/15/13 12:55

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 85.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0088		0.0046	0.0020	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	08/15/13 12:55	08/22/13 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/15/13 12:55	08/22/13 12:43	1
Dibromofluoromethane	99		75 - 120	08/15/13 12:55	08/22/13 12:43	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	08/15/13 12:55	08/22/13 12:43	1
Toluene-d8 (Surr)	93		75 - 122	08/15/13 12:55	08/22/13 12:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-9

Client Sample ID: 846D-101-B02

Lab Sample ID: 500-61265-23

Date Collected: 08/15/13 12:55

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-9

Client Sample ID: 846D-101-B02

Lab Sample ID: 500-61265-23

Date Collected: 08/15/13 12:55

Matrix: Solid

Date Received: 08/15/13 15:50

Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/23/13 17:29	08/30/13 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		25 - 110				08/23/13 17:29	08/30/13 17:37	1
Phenol-d5	59		31 - 110				08/23/13 17:29	08/30/13 17:37	1
Nitrobenzene-d5	66		25 - 115				08/23/13 17:29	08/30/13 17:37	1
2-Fluorobiphenyl	58		25 - 119				08/23/13 17:29	08/30/13 17:37	1
2,4,6-Tribromophenol	19 X		35 - 137				08/23/13 17:29	08/30/13 17:37	1
Terphenyl-d14	74		36 - 134				08/23/13 17:29	08/30/13 17:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.89	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Arsenic	8.8		1.1	0.22	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Barium	36		1.1	0.12	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Beryllium	0.53		0.44	0.039	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Boron	9.8		5.5	0.23	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Cadmium	0.34 B		0.22	0.028	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Calcium	47000 B		22	6.0	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Chromium	16		1.1	0.13	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Cobalt	13		0.55	0.039	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Copper	25 B		1.1	0.098	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Iron	20000		22	9.1	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Lead	21		0.55	0.16	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Magnesium	24000 B		11	2.3	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Manganese	400 B		1.1	0.060	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Nickel	32		1.1	0.11	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Potassium	2000		55	3.3	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Selenium	0.53 J		1.1	0.39	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Silver	<0.55		0.55	0.040	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Sodium	110		110	15	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Thallium	<1.1		1.1	0.47	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Vanadium	17		0.55	0.082	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Zinc	66 B		2.2	0.45	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1
Aluminum	9000		22	2.0	mg/Kg	☼	08/29/13 11:45	08/30/13 02:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 08:45	09/12/13 06:29	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 08:45	09/12/13 06:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-9

Client Sample ID: 846D-101-B02

Lab Sample ID: 500-61265-23

Date Collected: 08/15/13 12:55

Matrix: Solid

Date Received: 08/15/13 15:50

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.35		0.025	0.010	mg/L		09/11/13 08:45	09/12/13 06:29	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.72		0.50	0.010	mg/L		08/22/13 08:35	09/09/13 01:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/22/13 08:35	09/09/13 01:16	1
Boron	1.1		0.10	0.050	mg/L		08/22/13 08:35	09/09/13 01:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/22/13 08:35	09/09/13 01:16	1
Chromium	0.032		0.025	0.010	mg/L		08/22/13 08:35	09/09/13 01:16	1
Cobalt	0.010	J	0.025	0.0050	mg/L		08/22/13 08:35	09/09/13 01:16	1
Iron	30		0.20	0.20	mg/L		08/22/13 08:35	09/09/13 01:16	1
Lead	0.016		0.0075	0.0050	mg/L		08/22/13 08:35	09/09/13 01:16	1
Manganese	0.22		0.025	0.010	mg/L		08/22/13 08:35	09/09/13 01:16	1
Nickel	0.037		0.025	0.010	mg/L		08/22/13 08:35	09/09/13 01:16	1
Selenium	<0.050		0.050	0.010	mg/L		08/22/13 08:35	09/09/13 01:16	1
Silver	<0.025		0.025	0.0050	mg/L		08/22/13 08:35	09/09/13 01:16	1
Zinc	0.55		0.10	0.020	mg/L		08/22/13 08:35	09/09/13 01:16	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/22/13 08:35	08/22/13 19:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/22/13 08:35	08/27/13 15:45	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000052	J B	0.00020	0.000020	mg/L		08/22/13 15:20	08/23/13 10:20	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0085	mg/Kg	☼	08/21/13 13:00	08/22/13 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95		0.200	0.200	SU			08/29/13 16:08	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-61265-9

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12554 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60017 Longitude: -87.92498
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1978075051 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)
 Latitude: 41.60017 Longitude: -87.92498

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATION 846D-102-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-102. SEE FIGURE 18 AND TABLE 3cg OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61359-7

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

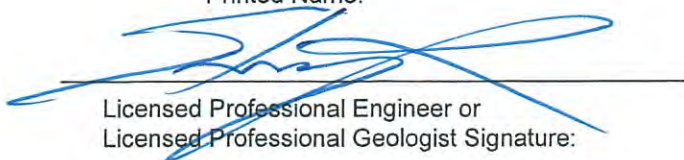
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

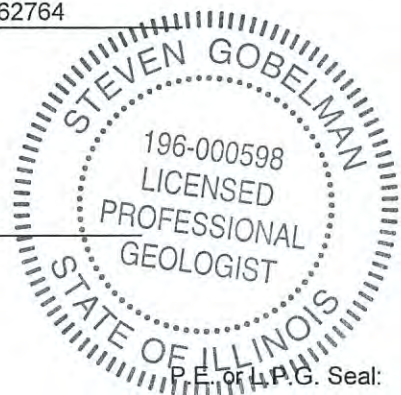
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

1/13/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-102
Jiffy Lube

Sample ID	846D-102-B01							
Sample Depth (ft)	0-8							
Sample Date	8/16/2013							
PID	0							
Sample pH	8.15							
Matrix	Soil							
No Contaminants of Concern Noted.								
		¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61359-7
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/12/2013 1:10:13 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-7

Client Sample ID: 846D-102-B01

Lab Sample ID: 500-61359-10

Date Collected: 08/16/13 13:00

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 80.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.027		0.0052	0.0022	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
2-Butanone (MEK)	0.0031	J	0.0052	0.0019	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Vinyl acetate	<0.0052		0.0052	0.00081	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	08/16/13 13:00	08/21/13 11:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/16/13 13:00	08/21/13 11:13	1
Dibromofluoromethane	102		75 - 120	08/16/13 13:00	08/21/13 11:13	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/16/13 13:00	08/21/13 11:13	1
Toluene-d8 (Surr)	95		75 - 122	08/16/13 13:00	08/21/13 11:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-7

Client Sample ID: 846D-102-B01

Lab Sample ID: 500-61359-10

Date Collected: 08/16/13 13:00

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-7

Client Sample ID: 846D-102-B01

Lab Sample ID: 500-61359-10

Date Collected: 08/16/13 13:00

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Bis(2-ethylhexyl) phthalate	0.074	J	0.20	0.053	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	08/28/13 20:04	09/05/13 00:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	27		25 - 110				08/28/13 20:04	09/05/13 00:21	1
Phenol-d5	33		31 - 110				08/28/13 20:04	09/05/13 00:21	1
Nitrobenzene-d5	30		25 - 115				08/28/13 20:04	09/05/13 00:21	1
2-Fluorobiphenyl	43		25 - 119				08/28/13 20:04	09/05/13 00:21	1
2,4,6-Tribromophenol	31	X	35 - 137				08/28/13 20:04	09/05/13 00:21	1
Terphenyl-d14	63		36 - 134				08/28/13 20:04	09/05/13 00:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Arsenic	8.4		0.58	0.12	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Barium	80		0.58	0.063	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Beryllium	0.70		0.23	0.021	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Boron	1.8	J	2.9	0.12	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Cadmium	0.56		0.12	0.015	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Calcium	2100	B	12	3.2	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Chromium	17		0.58	0.068	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Cobalt	9.0		0.29	0.021	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Copper	24		0.58	0.052	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Iron	23000	B	12	4.8	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Lead	19		0.29	0.087	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Magnesium	3300	B	5.8	1.2	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Manganese	480	B	0.58	0.032	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Nickel	23	B	0.58	0.057	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Potassium	1100		29	1.8	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Selenium	0.77		0.58	0.21	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Sodium	87		58	7.8	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Thallium	<0.58		0.58	0.25	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Vanadium	20		0.29	0.043	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Zinc	59		1.2	0.24	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1
Aluminum	11000		12	1.1	mg/Kg	☼	08/20/13 16:00	08/30/13 04:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 07:45	09/12/13 03:29	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 07:45	09/12/13 03:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-7

Client Sample ID: 846D-102-B01

Lab Sample ID: 500-61359-10

Date Collected: 08/16/13 13:00

Matrix: Solid

Date Received: 08/16/13 15:20

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	8.8		0.025	0.010	mg/L		09/11/13 07:45	09/12/13 03:29	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.73	B	0.50	0.010	mg/L		08/23/13 08:29	09/08/13 18:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/23/13 08:29	09/08/13 18:42	1
Boron	0.75		0.10	0.050	mg/L		08/23/13 08:29	09/08/13 18:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/23/13 08:29	09/08/13 18:42	1
Chromium	0.065		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 18:42	1
Cobalt	0.024	J	0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 18:42	1
Iron	60		0.20	0.20	mg/L		08/23/13 08:29	09/08/13 18:42	1
Lead	0.037		0.0075	0.0050	mg/L		08/23/13 08:29	09/08/13 18:42	1
Manganese	2.6		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 18:42	1
Nickel	0.067		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 18:42	1
Selenium	<0.050		0.050	0.010	mg/L		08/23/13 08:29	09/08/13 18:42	1
Silver	<0.025		0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 18:42	1
Zinc	0.56		0.10	0.020	mg/L		08/23/13 08:29	09/08/13 18:42	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/23/13 08:29	08/26/13 18:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/23/13 08:29	08/26/13 18:50	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000020	mg/L		08/23/13 15:00	08/26/13 13:11	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.019	0.0089	mg/Kg	☼	08/21/13 13:00	08/22/13 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.15		0.200	0.200	SU			08/29/13 16:43	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-7

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15905 Bell Road and 12551 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.59991 Longitude: -87.92428
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.59991 Longitude: -87.92428

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-103-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-103. SEE FIGURE 18 AND TABLE 3ch OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60485-1

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/15/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-103

Commercial Businesses

Sample ID	846D-103-B01	846D-103-B02						
Sample Depth (ft)	0-2	0-2						
Sample Date	8/5/2013	8/5/2013						
PID	0	0						
Sample pH	7.43	6.48						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								
			¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-60485-1

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/9/2013 4:42:00 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-1

Client Sample ID: 846D-103-B01

Lab Sample ID: 500-60485-1

Date Collected: 08/05/13 12:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.32		0.32	0.083	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Benzene	<0.016		0.016	0.0048	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Bromodichloromethane	<0.13		0.13	0.022	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Bromoform	<0.13		0.13	0.028	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Bromomethane	<0.13		0.13	0.044	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
2-Butanone (MEK)	<0.32		0.32	0.094	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Carbon disulfide	<0.32		0.32	0.027	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Carbon tetrachloride	<0.064		0.064	0.017	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Chlorobenzene	<0.064		0.064	0.0092	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Chloroethane	<0.13		0.13	0.028	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Chloroform	<0.064		0.064	0.013	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Chloromethane	<0.13		0.13	0.030	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
cis-1,2-Dichloroethene	<0.064		0.064	0.0079	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
cis-1,3-Dichloropropene	<0.064		0.064	0.011	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Dibromochloromethane	<0.13		0.13	0.022	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
1,1-Dichloroethane	<0.064		0.064	0.012	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
1,2-Dichloroethane	<0.064		0.064	0.018	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
1,1-Dichloroethene	<0.064		0.064	0.020	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
1,2-Dichloropropane	<0.064		0.064	0.013	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
1,3-Dichloropropene, Total	<0.064		0.064	0.011	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Ethylbenzene	<0.016		0.016	0.0081	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
2-Hexanone	<0.32		0.32	0.036	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Methylene Chloride	<0.32		0.32	0.044	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
4-Methyl-2-pentanone (MIBK)	<0.32		0.32	0.021	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Methyl tert-butyl ether	<0.13		0.13	0.028	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Styrene	<0.064		0.064	0.0063	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
1,1,1,2-Tetrachloroethane	<0.064		0.064	0.015	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Tetrachloroethene	<0.064		0.064	0.011	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Toluene	<0.016		0.016	0.0074	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
trans-1,2-Dichloroethene	<0.064		0.064	0.016	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
trans-1,3-Dichloropropene	<0.064		0.064	0.013	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
1,1,1-Trichloroethane	<0.064		0.064	0.013	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
1,1,2-Trichloroethane	<0.064		0.064	0.018	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Trichloroethene	<0.032		0.032	0.012	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Vinyl acetate	<0.13		0.13	0.021	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Vinyl chloride	<0.016		0.016	0.0067	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50
Xylenes, Total	<0.032		0.032	0.0044	mg/Kg	☼	08/05/13 12:45	08/14/13 19:30	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 120	08/05/13 12:45	08/14/13 19:30	50
Dibromofluoromethane	107		75 - 120	08/05/13 12:45	08/14/13 19:30	50
1,2-Dichloroethane-d4 (Surr)	107		75 - 125	08/05/13 12:45	08/14/13 19:30	50
Toluene-d8 (Surr)	104		75 - 120	08/05/13 12:45	08/14/13 19:30	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-1

Client Sample ID: 846D-103-B01

Lab Sample ID: 500-60485-1

Date Collected: 08/05/13 12:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Hexachlorocyclopentadiene	<0.76	*	0.76	0.18	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Benzo[a]anthracene	0.010	J	0.038	0.0079	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-1

Client Sample ID: 846D-103-B01

Lab Sample ID: 500-60485-1

Date Collected: 08/05/13 12:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.038	0.0086	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Benzo[b]fluoranthene	0.013	J	0.038	0.0074	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Benzo[k]fluoranthene	0.0094	J	0.038	0.0090	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Benzo[a]pyrene	0.011	J	0.038	0.0069	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/12/13 00:40	08/18/13 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	43		30 - 110				08/12/13 00:40	08/18/13 17:08	1
Phenol-d5	47		31 - 110				08/12/13 00:40	08/18/13 17:08	1
Nitrobenzene-d5	41		30 - 115				08/12/13 00:40	08/18/13 17:08	1
2-Fluorobiphenyl	45		30 - 119				08/12/13 00:40	08/18/13 17:08	1
2,4,6-Tribromophenol	52		35 - 137				08/12/13 00:40	08/18/13 17:08	1
Terphenyl-d14	72		36 - 134				08/12/13 00:40	08/18/13 17:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Arsenic	9.2		0.55	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Barium	71		0.55	0.059	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Beryllium	0.74		0.22	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Boron	2.8		2.8	0.12	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Cadmium	0.23		0.11	0.014	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Calcium	7900	B	11	3.0	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Chromium	17	V	0.55	0.064	mg/Kg	☼	08/06/13 08:00	09/07/13 18:48	1
Cobalt	12		0.28	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Copper	23		0.55	0.049	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Iron	20000		11	4.6	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Lead	29	B	0.28	0.083	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Magnesium	6200	B	5.5	1.1	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Manganese	460	B	0.55	0.030	mg/Kg	☼	08/06/13 08:00	09/07/13 18:48	1
Nickel	26		0.55	0.054	mg/Kg	☼	08/06/13 08:00	09/07/13 18:48	1
Potassium	1400		28	1.7	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Selenium	0.70		0.55	0.20	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Silver	0.040	J B	0.28	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Sodium	410		55	7.4	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Thallium	0.50	J	0.55	0.23	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Vanadium	23		0.28	0.041	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Zinc	58		1.1	0.22	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1
Aluminum	10000		11	1.0	mg/Kg	☼	08/06/13 08:00	09/06/13 02:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.26		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 16:46	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 16:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-1

Client Sample ID: 846D-103-B01

Lab Sample ID: 500-60485-1

Date Collected: 08/05/13 12:45

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.21		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 16:46	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.24	J	0.50	0.010	mg/L		08/12/13 13:00	08/25/13 23:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/25/13 23:35	1
Boron	0.12		0.10	0.050	mg/L		08/12/13 13:00	08/25/13 23:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/25/13 23:35	1
Chromium	0.054		0.025	0.010	mg/L		08/12/13 13:00	08/25/13 23:35	1
Cobalt	0.015	J	0.025	0.0050	mg/L		08/12/13 13:00	08/25/13 23:35	1
Iron	54		0.20	0.20	mg/L		08/12/13 13:00	08/25/13 23:35	1
Lead	0.045		0.0075	0.0050	mg/L		08/12/13 13:00	08/25/13 23:35	1
Manganese	0.32		0.025	0.010	mg/L		08/12/13 13:00	08/25/13 23:35	1
Nickel	0.048		0.025	0.010	mg/L		08/12/13 13:00	08/25/13 23:35	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/25/13 23:35	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/25/13 23:35	1
Zinc	0.21		0.10	0.020	mg/L		08/12/13 13:00	08/25/13 23:35	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:08	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00010	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 11:27	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.018	0.0083	mg/Kg	☼	08/08/13 14:30	08/09/13 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.43		0.200	0.200	SU			08/17/13 08:55	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-1

Client Sample ID: 846D-103-B02

Lab Sample ID: 500-60485-2

Date Collected: 08/05/13 12:35

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0043	J	0.0044	0.0019	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	08/05/13 12:35	08/09/13 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	08/05/13 12:35	08/09/13 01:07	1
Dibromofluoromethane	107		75 - 120	08/05/13 12:35	08/09/13 01:07	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/05/13 12:35	08/09/13 01:07	1
Toluene-d8 (Surr)	94		75 - 122	08/05/13 12:35	08/09/13 01:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-1

Client Sample ID: 846D-103-B02

Lab Sample ID: 500-60485-2

Date Collected: 08/05/13 12:35

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-1

Client Sample ID: 846D-103-B02

Lab Sample ID: 500-60485-2

Date Collected: 08/05/13 12:35

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/12/13 07:16	08/17/13 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		30 - 110				08/12/13 07:16	08/17/13 20:02	1
Phenol-d5	49		31 - 110				08/12/13 07:16	08/17/13 20:02	1
Nitrobenzene-d5	51		30 - 115				08/12/13 07:16	08/17/13 20:02	1
2-Fluorobiphenyl	55		30 - 119				08/12/13 07:16	08/17/13 20:02	1
2,4,6-Tribromophenol	69		35 - 137				08/12/13 07:16	08/17/13 20:02	1
Terphenyl-d14	68		36 - 134				08/12/13 07:16	08/17/13 20:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Arsenic	11		0.53	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Barium	46		0.53	0.057	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Beryllium	0.74		0.21	0.019	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Boron	4.1		2.7	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Cadmium	0.34	B	0.11	0.014	mg/Kg	☼	08/06/13 08:00	09/06/13 20:09	1
Calcium	1400	B	11	2.9	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Chromium	21		0.53	0.062	mg/Kg	☼	08/06/13 08:00	09/06/13 20:09	1
Cobalt	11		0.27	0.019	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Copper	24		0.53	0.047	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Iron	28000		11	4.4	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Lead	19	B	0.27	0.080	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Magnesium	4200	B	5.3	1.1	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Manganese	410		0.53	0.029	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Nickel	26	B	0.53	0.052	mg/Kg	☼	08/06/13 08:00	09/06/13 20:09	1
Potassium	1600		27	1.6	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Selenium	1.0		0.53	0.19	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Sodium	71		53	7.2	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Thallium	0.53		0.53	0.23	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Vanadium	21		0.27	0.040	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Zinc	76		1.1	0.22	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1
Aluminum	13000		11	0.98	mg/Kg	☼	08/06/13 08:00	09/06/13 03:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/29/13 10:00	09/07/13 17:11	1
Iron	1.0		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 17:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-1

Client Sample ID: 846D-103-B02

Lab Sample ID: 500-60485-2

Date Collected: 08/05/13 12:35

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0065	J	0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 17:11	1
Manganese	0.044		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 17:11	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.010	mg/L		08/12/13 13:00	08/25/13 23:41	1
Beryllium	0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/25/13 23:41	1
Boron	0.11		0.10	0.050	mg/L		08/12/13 13:00	08/25/13 23:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/25/13 23:41	1
Chromium	0.081		0.025	0.010	mg/L		08/12/13 13:00	08/25/13 23:41	1
Cobalt	0.018	J	0.025	0.0050	mg/L		08/12/13 13:00	08/25/13 23:41	1
Iron	91		0.20	0.20	mg/L		08/12/13 13:00	08/25/13 23:41	1
Lead	0.039		0.0075	0.0050	mg/L		08/12/13 13:00	08/25/13 23:41	1
Manganese	0.32		0.025	0.010	mg/L		08/12/13 13:00	08/25/13 23:41	1
Nickel	0.078		0.025	0.010	mg/L		08/12/13 13:00	08/25/13 23:41	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/25/13 23:41	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/25/13 23:41	1
Zinc	0.33		0.10	0.020	mg/L		08/12/13 13:00	08/25/13 23:41	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:09	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 11:29	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0085	mg/Kg	☼	08/08/13 14:30	08/09/13 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.48		0.200	0.200	SU			08/17/13 09:02	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
V	Serial Dilution exceeds the control limits
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Name: <u>US6/IL7 Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: _____ of _____ Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/39</u> Matrix Key: _____										
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.				ANALYSES												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
1	846D-103-B01	8/5	12:45	S	X	X					X	X	X	X		
2	846D-103-B02	8/5	12:35	S	X	X					X	X	X	X		
<div style="position: absolute; top: 50px; left: 50px; font-size: 2em; opacity: 0.5;"> </div>																
Relinquished by:					Date/Time	Received by:					Date/Time	Received by:				
					8/5/13 4:00						8/5/13 1655					
Relinquished by:					Date/Time	Received by:					Date/Time	Received by:				
					8/5/13 1655						8/5/13 1655					
Relinquished by:					Date/Time	Received by:					Date/Time	Received by:				



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US6/IL7WileyCook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: AEZ	COC No.: 1 of 2 Lab Job No.: 500-60485 Sample Temp: 38.463.5373.9 Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other								
SPECIAL INSTRUCTIONS: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.											
ANALYSES											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	7.5-15
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X								



CHAIN OF CUSTODY RECORD

Client Contact	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com
Laboratory	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>US6/IL7 Wild + Cook Co</u> Project No.: <u>IDOT 2013 - 023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: <u>ASZ</u> Sampler: _____	
COC No.: <u>2</u> of <u>2</u> Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/39</u> Matrix Key: _____	

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments			
					VOCs	SVOCs	BETX & MTBE	PNA's	Pesticides	PCBS	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization		
15	846D-105-B06-a	8/5/13	3:40	S	X	X				X	X	X	X	X	X			7.5-15
16	846D-105-B07-1		2:25	S	X	X				X	X	X	X	X	X			0-7.5
17	846D-105-B07-1 DUP		2:40	S	X	X				X	X	X	X	X	X			0-7.5
18	846D-105-B07-a		2:30	S	X	X				X	X	X	X	X	X			7.5-15
19	846D-105-B08-1		1:20	S	X	X				X	X	X	X	X	X			0-7.5
20	846D-105-B08-a		1:30	S	X	X				X	X	X	X	X	X			7.5-15

Relinquished by: <u>John A. Wright (NET)</u>	Date/Time: <u>8/5/13 4:15</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/5/13 1655</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/5/13 1655</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/5/13 1655</u>
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7 Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____	COC No.: _____ of _____ Lab Job No.: _____ Sample Temp: <u>500-60485</u> Matrix Key: <u>3846353739</u> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
26	846D-108-B01	8/5	11:05	S	X	X					X	X	X	X		
<div style="display: flex; justify-content: space-between;"> <div> Relinquished by: Relinquished by: Relinquished by: _____ </div> <div> Date/Time: <u>8/5/13 7:00</u> Date/Time: <u>8/5/13 1055</u> Date/Time: _____ </div> <div> Received by: Received by: Received by: _____ </div> <div> Date/Time: <u>8-5-13/1000</u> Date/Time: <u>8/5/13 1055</u> Date/Time: _____ </div> </div>																



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12542 - 12546 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60019 Longitude: -87.92454
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60019 Longitude: -87.92454

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 846D-104-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-104. SEE FIGURE 18 AND TABLE 3ci OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-61359-8

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

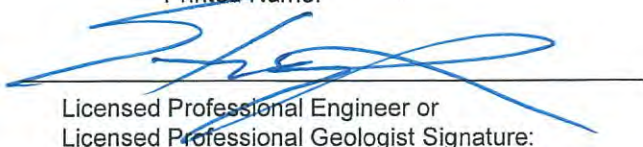
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

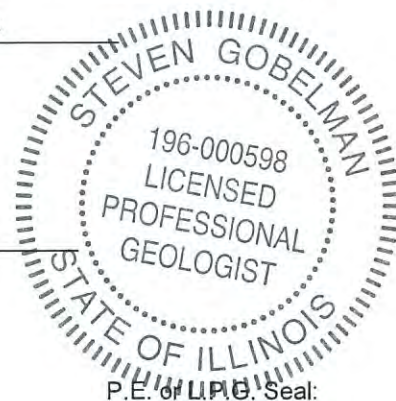
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/15/17

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-104

Commercial Building

Sample ID	846D-104-B01	846D-104-B02						
Sample Depth (ft)	0-7	0-7						
PID	1/0/1900	8/16/2013						
% Solids	0	0						
Sample pH	8.44	8.31						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								
			¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non- Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-61359-8
Client Project/Site: IDOT - Gougar Road - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/12/2013 1:10:42 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-8

Client Sample ID: 846D-104-B01

Lab Sample ID: 500-61359-11

Date Collected: 08/16/13 12:40

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 86.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0055		0.0045	0.0019	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	08/16/13 12:40	08/21/13 11:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	08/16/13 12:40	08/21/13 11:36	1
Dibromofluoromethane	100		75 - 120	08/16/13 12:40	08/21/13 11:36	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/16/13 12:40	08/21/13 11:36	1
Toluene-d8 (Surr)	94		75 - 122	08/16/13 12:40	08/21/13 11:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-8

Client Sample ID: 846D-104-B01

Lab Sample ID: 500-61359-11

Date Collected: 08/16/13 12:40

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-8

Client Sample ID: 846D-104-B01

Lab Sample ID: 500-61359-11

Date Collected: 08/16/13 12:40

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0081	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	08/28/13 20:04	09/05/13 00:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	19	X	25 - 110	08/28/13 20:04	09/05/13 00:37	1
Phenol-d5	23	X	31 - 110	08/28/13 20:04	09/05/13 00:37	1
Nitrobenzene-d5	20	X	25 - 115	08/28/13 20:04	09/05/13 00:37	1
2-Fluorobiphenyl	29		25 - 119	08/28/13 20:04	09/05/13 00:37	1
2,4,6-Tribromophenol	26	X	35 - 137	08/28/13 20:04	09/05/13 00:37	1
Terphenyl-d14	49		36 - 134	08/28/13 20:04	09/05/13 00:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Arsenic	8.6		0.55	0.11	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Barium	40		0.55	0.059	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Beryllium	0.50		0.22	0.020	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Boron	5.0		2.8	0.12	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Cadmium	0.60		0.11	0.014	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Calcium	39000	B	11	3.0	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Chromium	13		0.55	0.064	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Cobalt	13		0.28	0.020	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Copper	24		0.55	0.049	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Iron	20000	B	11	4.5	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Lead	13		0.28	0.082	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Magnesium	23000	B	5.5	1.1	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Manganese	470	B	0.55	0.030	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Nickel	33	B	0.55	0.054	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Potassium	1300		28	1.7	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Sodium	300		55	7.4	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Vanadium	15		0.28	0.041	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Zinc	49		1.1	0.22	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1
Aluminum	8300		11	1.0	mg/Kg	☼	08/20/13 16:00	08/30/13 04:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/13 07:45	09/12/13 03:34	1
Iron	<0.20		0.20	0.20	mg/L		09/11/13 07:45	09/12/13 03:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-8

Client Sample ID: 846D-104-B01

Lab Sample ID: 500-61359-11

Date Collected: 08/16/13 12:40

Matrix: Solid

Date Received: 08/16/13 15:20

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 07:45	09/12/13 03:34	1
Manganese	0.76		0.025	0.010	mg/L		09/11/13 07:45	09/12/13 03:34	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.82	B	0.50	0.010	mg/L		08/23/13 08:29	09/08/13 18:49	1
Beryllium	0.0041		0.0040	0.0040	mg/L		08/23/13 08:29	09/08/13 18:49	1
Boron	1.1		0.10	0.050	mg/L		08/23/13 08:29	09/08/13 18:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/23/13 08:29	09/08/13 18:49	1
Chromium	0.080		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 18:49	1
Cobalt	0.023	J	0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 18:49	1
Iron	85		0.20	0.20	mg/L		08/23/13 08:29	09/08/13 18:49	1
Lead	0.038		0.0075	0.0050	mg/L		08/23/13 08:29	09/08/13 18:49	1
Manganese	0.39		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 18:49	1
Nickel	0.089		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 18:49	1
Selenium	<0.050		0.050	0.010	mg/L		08/23/13 08:29	09/08/13 18:49	1
Silver	<0.025		0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 18:49	1
Zinc	0.75		0.10	0.020	mg/L		08/23/13 08:29	09/08/13 18:49	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 07:45	09/11/13 16:36	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/23/13 08:29	08/26/13 18:54	1
Thallium	0.0021		0.0020	0.0020	mg/L		08/23/13 08:29	08/26/13 18:54	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000020	mg/L		08/23/13 15:00	08/26/13 13:13	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0087	mg/Kg	☼	08/21/13 13:00	08/22/13 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.44		0.200	0.200	SU			08/29/13 16:39	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-8

Client Sample ID: 846D-104-B02

Lab Sample ID: 500-61359-12

Date Collected: 08/16/13 12:25

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0098		0.0042	0.0018	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Bromoform	<0.0042		0.0042	0.00095	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Chloromethane	<0.0042		0.0042	0.00087	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00054	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Dibromochloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
1,1-Dichloroethene	<0.0042		0.0042	0.00067	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00054	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Styrene	<0.0042		0.0042	0.00054	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Tetrachloroethene	<0.0042		0.0042	0.00063	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00074	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Trichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Vinyl acetate	<0.0042		0.0042	0.00065	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Vinyl chloride	<0.0042		0.0042	0.00087	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	08/16/13 12:25	08/21/13 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/16/13 12:25	08/21/13 11:59	1
Dibromofluoromethane	101		75 - 120	08/16/13 12:25	08/21/13 11:59	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/16/13 12:25	08/21/13 11:59	1
Toluene-d8 (Surr)	93		75 - 122	08/16/13 12:25	08/21/13 11:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-8

Client Sample ID: 846D-104-B02

Lab Sample ID: 500-61359-12

Date Collected: 08/16/13 12:25

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-8

Client Sample ID: 846D-104-B02

Lab Sample ID: 500-61359-12

Date Collected: 08/16/13 12:25

Matrix: Solid

Date Received: 08/16/13 15:20

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/28/13 20:04	09/05/13 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	28		25 - 110	08/28/13 20:04	09/05/13 00:54	1
Phenol-d5	30	X	31 - 110	08/28/13 20:04	09/05/13 00:54	1
Nitrobenzene-d5	28		25 - 115	08/28/13 20:04	09/05/13 00:54	1
2-Fluorobiphenyl	41		25 - 119	08/28/13 20:04	09/05/13 00:54	1
2,4,6-Tribromophenol	50		35 - 137	08/28/13 20:04	09/05/13 00:54	1
Terphenyl-d14	61		36 - 134	08/28/13 20:04	09/05/13 00:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Arsenic	8.5		0.54	0.11	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Barium	24		0.54	0.057	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Beryllium	0.44		0.21	0.019	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Boron	5.7		2.7	0.11	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Cadmium	0.61		0.11	0.014	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Calcium	43000	B	11	2.9	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Chromium	12		0.54	0.062	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Cobalt	8.8		0.27	0.019	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Copper	24		0.54	0.048	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Iron	19000	B	11	4.4	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Lead	12		0.27	0.080	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Magnesium	24000	B	5.4	1.1	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Manganese	340	B	0.54	0.029	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Nickel	25	B	0.54	0.053	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Potassium	1400		27	1.6	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Sodium	690		54	7.2	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Vanadium	13		0.27	0.040	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Zinc	52		1.1	0.22	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1
Aluminum	7000		11	0.99	mg/Kg	☼	08/20/13 16:00	08/30/13 04:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/11/13 07:45	09/12/13 03:40	1
Chromium	<0.025		0.025	0.010	mg/L		09/11/13 07:45	09/12/13 03:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-8

Client Sample ID: 846D-104-B02

Lab Sample ID: 500-61359-12

Date Collected: 08/16/13 12:25

Matrix: Solid

Date Received: 08/16/13 15:20

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		09/11/13 07:45	09/12/13 03:40	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/11/13 07:45	09/12/13 03:40	1
Manganese	1.0		0.025	0.010	mg/L		09/11/13 07:45	09/12/13 03:40	1
Nickel	<0.025		0.025	0.010	mg/L		09/11/13 07:45	09/12/13 03:40	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.87	B	0.50	0.010	mg/L		08/23/13 08:29	09/08/13 18:55	1
Beryllium	0.0056		0.0040	0.0040	mg/L		08/23/13 08:29	09/08/13 18:55	1
Boron	1.2		0.10	0.050	mg/L		08/23/13 08:29	09/08/13 18:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/23/13 08:29	09/08/13 18:55	1
Chromium	0.12		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 18:55	1
Cobalt	0.035		0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 18:55	1
Iron	120		0.20	0.20	mg/L		08/23/13 08:29	09/08/13 18:55	1
Lead	0.061		0.0075	0.0050	mg/L		08/23/13 08:29	09/08/13 18:55	1
Manganese	0.57		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 18:55	1
Nickel	0.14		0.025	0.010	mg/L		08/23/13 08:29	09/08/13 18:55	1
Selenium	<0.050		0.050	0.010	mg/L		08/23/13 08:29	09/08/13 18:55	1
Silver	<0.025		0.025	0.0050	mg/L		08/23/13 08:29	09/08/13 18:55	1
Zinc	0.87		0.10	0.020	mg/L		08/23/13 08:29	09/08/13 18:55	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		09/11/13 07:45	09/11/13 16:37	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/23/13 08:29	08/26/13 18:58	1
Thallium	0.0027		0.0020	0.0020	mg/L		08/23/13 08:29	08/26/13 18:58	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00015	J	0.00020	0.000020	mg/L		08/23/13 15:00	08/26/13 13:14	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0084	mg/Kg	☼	08/21/13 13:00	08/22/13 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.31		0.200	0.200	SU			08/29/13 16:36	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar Road - WO 023

TestAmerica Job ID: 500-61359-8

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12110 to 12540 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60027 Longitude: -87.91908
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60027 Longitude: -87.91908

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-105-B01, -B03, -B04, -B05, -B06 AND -B07 WERE SAMPLED ADJACENT TO SITE NO. 846D-105. SEE FIGURES 18 & 19, AND TABLE 3cj OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60485-2

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

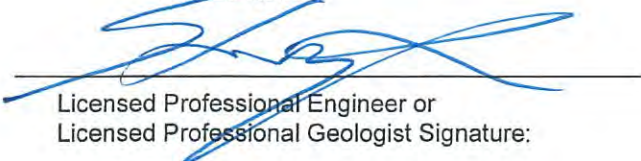
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

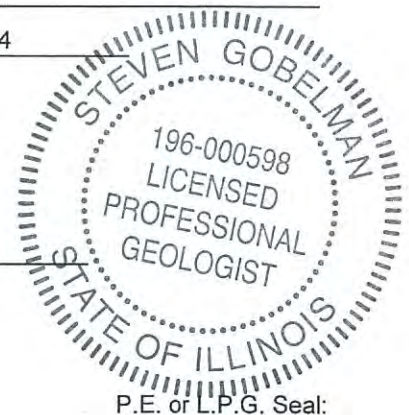
Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

1/13/11
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-105

Vacant Areas, Wooded Area, Farmland

Sample ID	846D-105-B01-1	846D-105-B01-2	846D-105-B03-1	846D-105-B03-2	846D-105-B04-1	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-7.5	7.5-15	0-7.5	7.5-15	0-7.5						
Sample Date	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013						
PID	0	0	0	0	0						
Sample pH	7.91	8.37	8.22	8.33	8.01						
Matrix	Soil	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

Sample ID	846D-105-B04-2	846D-105-B05-1	846D-105-B05-2	846D-105-B06-1	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	7.5-15	0-7.5	7.5-15	0-7.5						
Sample Date	8/5/2013	8/5/2013	8/5/2013	8/5/2013						
PID	0	0	0	0						
Sample pH	7.99	8.69	8.17	8.68						
Matrix	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

Sample ID	846D-105-B06-2	846D-105-B07-1	846D-105-B07-1 DUP	846D-105-B07-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	7.5-15	0-7.5	0-7.5	7.5-15						
Sample Date	8/5/2013	8/5/2013	8/5/2013	8/5/2013						
PID	0	0	0	0						
Sample pH	8.41	7.73	7.9	7.25						
Matrix	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-60485-2
Client Project/Site: IDOT - Gougar - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/9/2013 4:44:20 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B01-1

Lab Sample ID: 500-60485-3

Date Collected: 08/05/13 13:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0067		0.0043	0.0019	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	08/05/13 13:45	08/09/13 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/05/13 13:45	08/09/13 01:29	1
Dibromofluoromethane	104		75 - 120	08/05/13 13:45	08/09/13 01:29	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/05/13 13:45	08/09/13 01:29	1
Toluene-d8 (Surr)	92		75 - 122	08/05/13 13:45	08/09/13 01:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B01-1

Lab Sample ID: 500-60485-3

Date Collected: 08/05/13 13:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B01-1

Lab Sample ID: 500-60485-3

Date Collected: 08/05/13 13:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0085	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/12/13 07:16	08/17/13 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		30 - 110				08/12/13 07:16	08/17/13 20:24	1
Phenol-d5	71		31 - 110				08/12/13 07:16	08/17/13 20:24	1
Nitrobenzene-d5	41		30 - 115				08/12/13 07:16	08/17/13 20:24	1
2-Fluorobiphenyl	59		30 - 119				08/12/13 07:16	08/17/13 20:24	1
2,4,6-Tribromophenol	60		35 - 137				08/12/13 07:16	08/17/13 20:24	1
Terphenyl-d14	79		36 - 134				08/12/13 07:16	08/17/13 20:24	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.019		0.019	0.0075	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
alpha-BHC	<0.019		0.019	0.0046	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
alpha-Chlordane	<0.019		0.019	0.0092	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
beta-BHC	<0.019		0.019	0.0056	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
4,4'-DDD	<0.019		0.019	0.0036	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
4,4'-DDE	<0.019		0.019	0.0030	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
4,4'-DDT	<0.019	*	0.019	0.0096	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
delta-BHC	<0.019		0.019	0.0057	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
Dieldrin	<0.019		0.019	0.0025	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
Endosulfan I	<0.019		0.019	0.0080	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
Endosulfan II	<0.019		0.019	0.0030	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
Endosulfan sulfate	<0.019		0.019	0.0033	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
Endrin	<0.019		0.019	0.0025	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
Endrin aldehyde	<0.019		0.019	0.0031	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
Endrin ketone	<0.019		0.019	0.0041	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
gamma-BHC (Lindane)	<0.019		0.019	0.0039	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
gamma-Chlordane	<0.019		0.019	0.0048	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
Heptachlor	<0.019		0.019	0.0076	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
Heptachlor epoxide	<0.019		0.019	0.0065	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
Methoxychlor	<0.090	*	0.090	0.0035	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
Toxaphene	<0.18		0.18	0.077	mg/Kg	☼	08/13/13 07:24	08/14/13 16:55	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	104		56 - 128				08/13/13 07:24	08/14/13 16:55	10
Tetrachloro-m-xylene	92		45 - 112				08/13/13 07:24	08/14/13 16:55	10

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B01-1

Lab Sample ID: 500-60485-3

Date Collected: 08/05/13 13:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Arsenic	11		0.57	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Barium	29		0.57	0.061	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Beryllium	0.59		0.23	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Boron	8.3		2.8	0.12	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Cadmium	0.044	J	0.11	0.014	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Calcium	35000	B	11	3.1	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Chromium	16		0.57	0.066	mg/Kg	☼	08/06/13 08:00	09/06/13 20:15	1
Cobalt	12		0.28	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Copper	29		0.57	0.050	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Iron	23000		11	4.7	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Lead	17	B	0.28	0.084	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Magnesium	24000	B	5.7	1.2	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Manganese	490		0.57	0.031	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Nickel	29	B	0.57	0.055	mg/Kg	☼	08/06/13 08:00	09/06/13 20:15	1
Potassium	2000		28	1.7	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Sodium	240		57	7.6	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Thallium	0.26	J	0.57	0.24	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Vanadium	17		0.28	0.042	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Zinc	51		1.1	0.23	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1
Aluminum	8800		11	1.0	mg/Kg	☼	08/06/13 08:00	09/06/13 03:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.41		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 17:17	1
Lead	0.0063	J	0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 17:17	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36	J	0.50	0.010	mg/L		08/12/13 13:00	08/25/13 23:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/25/13 23:48	1
Boron	0.45		0.10	0.050	mg/L		08/12/13 13:00	08/25/13 23:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/25/13 23:48	1
Chromium	0.025		0.025	0.010	mg/L		08/12/13 13:00	08/25/13 23:48	1
Cobalt	0.0077	J	0.025	0.0050	mg/L		08/12/13 13:00	08/25/13 23:48	1
Iron	25		0.20	0.20	mg/L		08/12/13 13:00	08/25/13 23:48	1
Lead	0.016		0.0075	0.0050	mg/L		08/12/13 13:00	08/25/13 23:48	1
Manganese	0.13		0.025	0.010	mg/L		08/12/13 13:00	08/25/13 23:48	1
Nickel	0.026		0.025	0.010	mg/L		08/12/13 13:00	08/25/13 23:48	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/25/13 23:48	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/25/13 23:48	1
Zinc	0.26		0.10	0.020	mg/L		08/12/13 13:00	08/25/13 23:48	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B01-1

Lab Sample ID: 500-60485-3

Date Collected: 08/05/13 13:45

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 11:35	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.017	0.0080	mg/Kg	*	08/08/13 14:30	08/09/13 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.91		0.200	0.200	SU			08/17/13 09:05	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B01-2

Lab Sample ID: 500-60485-4

Date Collected: 08/05/13 13:55

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Bromoform	<0.0042		0.0042	0.00097	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
1,1-Dichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	08/05/13 13:55	08/09/13 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/05/13 13:55	08/09/13 01:52	1
Dibromofluoromethane	108		75 - 120	08/05/13 13:55	08/09/13 01:52	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	08/05/13 13:55	08/09/13 01:52	1
Toluene-d8 (Surr)	93		75 - 122	08/05/13 13:55	08/09/13 01:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B01-2

Lab Sample ID: 500-60485-4

Date Collected: 08/05/13 13:55

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Naphthalene	0.015	J	0.036	0.0071	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Phenanthrene	0.063		0.036	0.015	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Pyrene	0.015	J	0.036	0.013	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B01-2

Lab Sample ID: 500-60485-4

Date Collected: 08/05/13 13:55

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/12/13 07:16	08/17/13 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		30 - 110				08/12/13 07:16	08/17/13 20:46	1
Phenol-d5	59		31 - 110				08/12/13 07:16	08/17/13 20:46	1
Nitrobenzene-d5	63		30 - 115				08/12/13 07:16	08/17/13 20:46	1
2-Fluorobiphenyl	69		30 - 119				08/12/13 07:16	08/17/13 20:46	1
2,4,6-Tribromophenol	70		35 - 137				08/12/13 07:16	08/17/13 20:46	1
Terphenyl-d14	107		36 - 134				08/12/13 07:16	08/17/13 20:46	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.019		0.019	0.0076	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
alpha-BHC	<0.019		0.019	0.0046	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
alpha-Chlordane	<0.019		0.019	0.0092	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
beta-BHC	<0.019		0.019	0.0056	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
4,4'-DDD	<0.019		0.019	0.0036	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
4,4'-DDE	<0.019		0.019	0.0030	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
4,4'-DDT	<0.019	*	0.019	0.0096	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
delta-BHC	<0.019		0.019	0.0057	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
Dieldrin	<0.019		0.019	0.0025	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
Endosulfan I	<0.019		0.019	0.0080	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
Endosulfan II	<0.019		0.019	0.0030	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
Endosulfan sulfate	<0.019		0.019	0.0033	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
Endrin	<0.019		0.019	0.0025	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
Endrin aldehyde	<0.019		0.019	0.0031	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
Endrin ketone	<0.019		0.019	0.0041	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
gamma-BHC (Lindane)	<0.019		0.019	0.0039	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
gamma-Chlordane	<0.019		0.019	0.0048	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
Heptachlor	<0.019		0.019	0.0076	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
Heptachlor epoxide	<0.019		0.019	0.0065	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
Methoxychlor	<0.090	*	0.090	0.0035	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
Toxaphene	<0.18		0.18	0.077	mg/Kg	☼	08/13/13 07:24	08/14/13 17:52	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		56 - 128				08/13/13 07:24	08/14/13 17:52	10
Tetrachloro-m-xylene	83		45 - 112				08/13/13 07:24	08/14/13 17:52	10

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B01-2

Lab Sample ID: 500-60485-4

Date Collected: 08/05/13 13:55

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Arsenic	10		0.55	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Barium	25		0.55	0.059	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Beryllium	0.51		0.22	0.019	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Boron	8.9		2.7	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Cadmium	0.12		0.11	0.014	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Calcium	48000	B	11	3.0	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Chromium	14		0.55	0.064	mg/Kg	☼	08/06/13 08:00	09/06/13 20:21	1
Cobalt	12		0.27	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Copper	24		0.55	0.049	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Iron	20000		11	4.5	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Lead	17	B	0.27	0.082	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Magnesium	26000	B	5.5	1.1	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Manganese	440		0.55	0.030	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Nickel	25	B	0.55	0.054	mg/Kg	☼	08/06/13 08:00	09/06/13 20:21	1
Potassium	2200		27	1.6	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Selenium	0.19	J	0.55	0.19	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Sodium	210		55	7.3	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Thallium	0.31	J	0.55	0.23	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Vanadium	14		0.27	0.041	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Zinc	58		1.1	0.22	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1
Aluminum	7500		11	1.0	mg/Kg	☼	08/06/13 08:00	09/06/13 03:57	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.010	mg/L		08/12/13 13:00	08/25/13 23:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/25/13 23:54	1
Boron	0.54		0.10	0.050	mg/L		08/12/13 13:00	08/25/13 23:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/25/13 23:54	1
Chromium	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/25/13 23:54	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/25/13 23:54	1
Iron	<0.20		0.20	0.20	mg/L		08/12/13 13:00	08/25/13 23:54	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/12/13 13:00	08/25/13 23:54	1
Manganese	0.038		0.025	0.010	mg/L		08/12/13 13:00	08/25/13 23:54	1
Nickel	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/25/13 23:54	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/25/13 23:54	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/25/13 23:54	1
Zinc	0.26		0.10	0.020	mg/L		08/12/13 13:00	08/25/13 23:54	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:11	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 11:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B01-2

Lab Sample ID: 500-60485-4

Date Collected: 08/05/13 13:55

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.3

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.017	0.0082	mg/Kg	☼	08/08/13 14:30	08/09/13 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		0.200	0.200	SU			08/17/13 09:09	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B03-1

Lab Sample ID: 500-60485-8

Date Collected: 08/05/13 14:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 82.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0029	J	0.0046	0.0020	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Bromoform	<0.0046		0.0046	0.0010	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Chloroform	<0.0046		0.0046	0.00052	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Dibromochloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00075	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	08/05/13 14:45	08/09/13 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/05/13 14:45	08/09/13 03:24	1
Dibromofluoromethane	104		75 - 120	08/05/13 14:45	08/09/13 03:24	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/05/13 14:45	08/09/13 03:24	1
Toluene-d8 (Surr)	91		75 - 122	08/05/13 14:45	08/09/13 03:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B03-1

Lab Sample ID: 500-60485-8

Date Collected: 08/05/13 14:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Phenanthrene	0.028	J	0.039	0.016	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Fluoranthene	0.070		0.039	0.016	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Pyrene	0.057		0.039	0.014	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Benzo[a]anthracene	0.016	J	0.039	0.0082	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B03-1

Lab Sample ID: 500-60485-8

Date Collected: 08/05/13 14:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.053		0.039	0.0089	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Benzo[b]fluoranthene	0.028	J	0.039	0.0076	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Benzo[k]fluoranthene	0.033	J	0.039	0.0094	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Benzo[a]pyrene	0.059		0.039	0.0072	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/12/13 07:16	08/17/13 22:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		30 - 110	08/12/13 07:16	08/17/13 22:14	1
Phenol-d5	66		31 - 110	08/12/13 07:16	08/17/13 22:14	1
Nitrobenzene-d5	48		30 - 115	08/12/13 07:16	08/17/13 22:14	1
2-Fluorobiphenyl	55		30 - 119	08/12/13 07:16	08/17/13 22:14	1
2,4,6-Tribromophenol	63		35 - 137	08/12/13 07:16	08/17/13 22:14	1
Terphenyl-d14	82		36 - 134	08/12/13 07:16	08/17/13 22:14	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.020		0.020	0.0080	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
alpha-BHC	<0.020		0.020	0.0049	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
alpha-Chlordane	<0.020		0.020	0.0098	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
beta-BHC	<0.020		0.020	0.0060	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
4,4'-DDD	<0.020		0.020	0.0039	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
4,4'-DDE	<0.020		0.020	0.0032	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
4,4'-DDT	<0.020	*	0.020	0.010	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
delta-BHC	<0.020		0.020	0.0061	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
Dieldrin	<0.020		0.020	0.0027	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
Endosulfan I	<0.020		0.020	0.0085	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
Endosulfan II	<0.020		0.020	0.0031	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
Endosulfan sulfate	<0.020		0.020	0.0035	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
Endrin	<0.020		0.020	0.0027	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
Endrin aldehyde	<0.020		0.020	0.0033	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
Endrin ketone	<0.020		0.020	0.0044	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
gamma-BHC (Lindane)	<0.020		0.020	0.0042	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
gamma-Chlordane	<0.020		0.020	0.0051	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
Heptachlor	<0.020		0.020	0.0081	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
Heptachlor epoxide	<0.020		0.020	0.0069	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
Methoxychlor	<0.096	*	0.096	0.0038	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10
Toxaphene	<0.19		0.19	0.082	mg/Kg	☼	08/13/13 07:24	08/14/13 19:08	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		56 - 128	08/13/13 07:24	08/14/13 19:08	10
Tetrachloro-m-xylene	84		45 - 112	08/13/13 07:24	08/14/13 19:08	10

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B03-1

Lab Sample ID: 500-60485-8

Date Collected: 08/05/13 14:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 82.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Arsenic	11		0.56	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Barium	70		0.56	0.059	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Beryllium	0.67		0.22	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Boron	2.6	J	2.8	0.12	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Cadmium	0.43	B	0.11	0.014	mg/Kg	☼	08/06/13 08:00	09/06/13 21:13	1
Calcium	7000	B	11	3.0	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Chromium	16		0.56	0.064	mg/Kg	☼	08/06/13 08:00	09/06/13 21:13	1
Cobalt	12		0.28	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Copper	25		0.56	0.049	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Iron	24000		11	4.6	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Lead	23	B	0.28	0.083	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Magnesium	5600	B	5.6	1.1	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Manganese	910	B	5.6	0.30	mg/Kg	☼	08/06/13 08:00	09/06/13 21:19	10
Nickel	25	B	0.56	0.054	mg/Kg	☼	08/06/13 08:00	09/06/13 21:13	1
Potassium	1100		28	1.7	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Selenium	0.88		0.56	0.20	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Sodium	1000		56	7.4	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Thallium	0.42	J	0.56	0.23	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Vanadium	20		0.28	0.041	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Zinc	52		1.1	0.22	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1
Aluminum	9700		11	1.0	mg/Kg	☼	08/06/13 08:00	09/06/13 04:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.69		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 00:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 00:52	1
Boron	0.83		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 00:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 00:52	1
Chromium	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 00:52	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 00:52	1
Iron	2.0		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 00:52	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 00:52	1
Manganese	0.027		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 00:52	1
Nickel	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 00:52	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 00:52	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 00:52	1
Zinc	0.41		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 00:52	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:22	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 11:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B03-1

Lab Sample ID: 500-60485-8

Date Collected: 08/05/13 14:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 82.6

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0091	mg/Kg	☼	08/08/13 14:30	08/09/13 13:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.22		0.200	0.200	SU			08/17/13 09:23	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B03-2

Lab Sample ID: 500-60485-9

Date Collected: 08/05/13 14:50

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 89.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0046		0.0042	0.0018	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Bromoform	<0.0042		0.0042	0.00095	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Chloromethane	<0.0042		0.0042	0.00087	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00054	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Dibromochloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00054	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Styrene	<0.0042		0.0042	0.00054	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Tetrachloroethene	<0.0042		0.0042	0.00063	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00074	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Trichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Vinyl acetate	<0.0042		0.0042	0.00065	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Vinyl chloride	<0.0042		0.0042	0.00087	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	08/05/13 14:50	08/09/13 03:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/05/13 14:50	08/09/13 03:46	1
Dibromofluoromethane	107		75 - 120	08/05/13 14:50	08/09/13 03:46	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/05/13 14:50	08/09/13 03:46	1
Toluene-d8 (Surr)	94		75 - 122	08/05/13 14:50	08/09/13 03:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B03-2

Lab Sample ID: 500-60485-9

Date Collected: 08/05/13 14:50

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 89.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.056	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
4-Nitroaniline	<0.37		0.37	0.075	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Diethyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Di-n-butyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B03-2

Lab Sample ID: 500-60485-9

Date Collected: 08/05/13 14:50

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 89.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Benzo[b]fluoranthene	<0.037		0.037	0.0071	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/12/13 07:16	08/17/13 22:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		30 - 110	08/12/13 07:16	08/17/13 22:36	1
Phenol-d5	71		31 - 110	08/12/13 07:16	08/17/13 22:36	1
Nitrobenzene-d5	50		30 - 115	08/12/13 07:16	08/17/13 22:36	1
2-Fluorobiphenyl	68		30 - 119	08/12/13 07:16	08/17/13 22:36	1
2,4,6-Tribromophenol	67		35 - 137	08/12/13 07:16	08/17/13 22:36	1
Terphenyl-d14	101		36 - 134	08/12/13 07:16	08/17/13 22:36	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.018		0.018	0.0075	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
alpha-BHC	<0.018		0.018	0.0046	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
alpha-Chlordane	<0.018		0.018	0.0091	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
beta-BHC	<0.018		0.018	0.0056	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
4,4'-DDD	<0.018		0.018	0.0036	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
4,4'-DDE	<0.018		0.018	0.0030	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
4,4'-DDT	<0.018	*	0.018	0.0095	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
delta-BHC	<0.018		0.018	0.0057	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
Dieldrin	<0.018		0.018	0.0025	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
Endosulfan I	<0.018		0.018	0.0079	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
Endosulfan II	<0.018		0.018	0.0029	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
Endosulfan sulfate	<0.018		0.018	0.0033	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
Endrin	<0.018		0.018	0.0025	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
Endrin aldehyde	<0.018		0.018	0.0030	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
Endrin ketone	<0.018		0.018	0.0041	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
gamma-BHC (Lindane)	<0.018		0.018	0.0039	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
gamma-Chlordane	<0.018		0.018	0.0047	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
Heptachlor	<0.018		0.018	0.0076	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
Heptachlor epoxide	<0.018		0.018	0.0064	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
Methoxychlor	<0.090	*	0.090	0.0035	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10
Toxaphene	<0.18		0.18	0.076	mg/Kg	☼	08/13/13 07:24	08/14/13 19:27	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		56 - 128	08/13/13 07:24	08/14/13 19:27	10
Tetrachloro-m-xylene	89		45 - 112	08/13/13 07:24	08/14/13 19:27	10

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B03-2

Lab Sample ID: 500-60485-9

Date Collected: 08/05/13 14:50

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 89.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Arsenic	9.3		0.54	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Barium	22		0.54	0.058	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Beryllium	0.45		0.22	0.019	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Boron	8.1		2.7	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Cadmium	0.17		0.11	0.014	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Calcium	85000	B	110	29	mg/Kg	☼	08/06/13 08:00	09/06/13 21:32	10
Chromium	12		0.54	0.063	mg/Kg	☼	08/06/13 08:00	09/06/13 21:25	1
Cobalt	6.9		0.27	0.019	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Copper	28		0.54	0.048	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Iron	18000		11	4.4	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Lead	15	B	0.27	0.080	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Magnesium	35000	B	5.4	1.1	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Manganese	350		0.54	0.029	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Nickel	22	B	0.54	0.053	mg/Kg	☼	08/06/13 08:00	09/06/13 21:25	1
Potassium	1900		27	1.6	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Selenium	0.29	J	0.54	0.19	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Silver	0.021	J B	0.27	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Sodium	390		54	7.2	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Thallium	0.51	J	0.54	0.23	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Vanadium	14		0.27	0.040	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Zinc	52		1.1	0.22	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1
Aluminum	6600		11	0.99	mg/Kg	☼	08/06/13 08:00	09/06/13 04:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 17:50	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 17:50	1
Manganese	1.6		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 17:50	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 00:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 00:59	1
Boron	0.66		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 00:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 00:59	1
Chromium	0.026		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 00:59	1
Cobalt	0.0097	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 00:59	1
Iron	26		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 00:59	1
Lead	0.017		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 00:59	1
Manganese	0.16		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 00:59	1
Nickel	0.032		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 00:59	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 00:59	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 00:59	1
Zinc	0.39		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 00:59	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B03-2

Lab Sample ID: 500-60485-9

Date Collected: 08/05/13 14:50

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000071	J	0.00020	0.000020	mg/L	—	08/13/13 15:30	08/14/13 11:51	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0079	mg/Kg	☼	08/08/13 14:30	08/09/13 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.33		0.200	0.200	SU	—		08/17/13 09:26	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B04-1

Lab Sample ID: 500-60485-10

Date Collected: 08/05/13 15:15

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 78.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0023	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Benzene	<0.0054		0.0054	0.00073	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Bromodichloromethane	<0.0054		0.0054	0.00092	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Carbon disulfide	<0.0054		0.0054	0.00080	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Carbon tetrachloride	<0.0054		0.0054	0.00097	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Chlorobenzene	<0.0054		0.0054	0.00054	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00070	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Dibromochloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
1,1-Dichloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
1,2-Dichloroethane	<0.0054		0.0054	0.00079	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
1,1-Dichloroethene	<0.0054		0.0054	0.00087	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
1,2-Dichloropropane	<0.0054		0.0054	0.00081	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00070	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
2-Hexanone	<0.0054		0.0054	0.0015	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Methylene Chloride	<0.0054		0.0054	0.0014	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00088	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Styrene	<0.0054		0.0054	0.00070	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Tetrachloroethene	<0.0054		0.0054	0.00082	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Toluene	<0.0054		0.0054	0.00075	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00096	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00073	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Trichloroethene	<0.0054		0.0054	0.00088	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Vinyl acetate	<0.0054		0.0054	0.00084	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	08/05/13 15:15	08/09/13 04:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	08/05/13 15:15	08/09/13 04:09	1
Dibromofluoromethane	106		75 - 120	08/05/13 15:15	08/09/13 04:09	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/05/13 15:15	08/09/13 04:09	1
Toluene-d8 (Surr)	92		75 - 122	08/05/13 15:15	08/09/13 04:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.066	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B04-1

Lab Sample ID: 500-60485-10

Date Collected: 08/05/13 15:15

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 78.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
2-Methylphenol	<0.21		0.21	0.056	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Naphthalene	<0.042		0.042	0.0081	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
2,4,6-Trichlorophenol	<0.42		0.42	0.053	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
2-Nitrophenol	<0.42		0.42	0.066	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
3-Nitroaniline	<0.42		0.42	0.081	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Acenaphthylene	<0.042		0.042	0.0096	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
4-Nitrophenol	<0.84		0.84	0.23	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Fluorene	<0.042		0.042	0.0095	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
4-Nitroaniline	<0.42		0.42	0.086	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Phenanthrene	<0.042		0.042	0.018	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Anthracene	<0.042		0.042	0.0098	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Fluoranthene	<0.042		0.042	0.017	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Pyrene	<0.042		0.042	0.015	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Benzo[a]anthracene	<0.042		0.042	0.0088	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B04-1

Lab Sample ID: 500-60485-10

Date Collected: 08/05/13 15:15

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 78.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.0094	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Di-n-octyl phthalate	<0.21		0.21	0.085	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Benzo[b]fluoranthene	<0.042		0.042	0.0081	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Benzo[k]fluoranthene	<0.042		0.042	0.010	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Benzo[a]pyrene	<0.042		0.042	0.0076	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.014	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Dibenz(a,h)anthracene	<0.042		0.042	0.012	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
3 & 4 Methylphenol	<0.21		0.21	0.079	mg/Kg	☼	08/12/13 07:16	08/17/13 22:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		30 - 110				08/12/13 07:16	08/17/13 22:58	1
Phenol-d5	60		31 - 110				08/12/13 07:16	08/17/13 22:58	1
Nitrobenzene-d5	48		30 - 115				08/12/13 07:16	08/17/13 22:58	1
2-Fluorobiphenyl	48		30 - 119				08/12/13 07:16	08/17/13 22:58	1
2,4,6-Tribromophenol	71		35 - 137				08/12/13 07:16	08/17/13 22:58	1
Terphenyl-d14	72		36 - 134				08/12/13 07:16	08/17/13 22:58	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.021		0.021	0.0084	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
alpha-BHC	<0.021		0.021	0.0051	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
alpha-Chlordane	<0.021		0.021	0.010	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
beta-BHC	<0.021		0.021	0.0063	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
4,4'-DDD	<0.021		0.021	0.0040	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
4,4'-DDE	<0.021		0.021	0.0034	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
4,4'-DDT	<0.021	*	0.021	0.011	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
delta-BHC	<0.021		0.021	0.0064	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
Dieldrin	<0.021		0.021	0.0028	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
Endosulfan I	<0.021		0.021	0.0089	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
Endosulfan II	<0.021		0.021	0.0033	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
Endosulfan sulfate	<0.021		0.021	0.0037	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
Endrin	<0.021		0.021	0.0028	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
Endrin aldehyde	<0.021		0.021	0.0034	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
Endrin ketone	<0.021		0.021	0.0046	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
gamma-BHC (Lindane)	<0.021		0.021	0.0044	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
gamma-Chlordane	<0.021		0.021	0.0053	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
Heptachlor	<0.021		0.021	0.0085	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
Heptachlor epoxide	<0.021		0.021	0.0072	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
Methoxychlor	<0.10	*	0.10	0.0039	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
Toxaphene	<0.20		0.20	0.085	mg/Kg	☼	08/13/13 07:24	08/14/13 20:43	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		56 - 128				08/13/13 07:24	08/14/13 20:43	10
Tetrachloro-m-xylene	92		45 - 112				08/13/13 07:24	08/14/13 20:43	10

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B04-1

Lab Sample ID: 500-60485-10

Date Collected: 08/05/13 15:15

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 78.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Arsenic	8.8		0.62	0.12	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Barium	89		0.62	0.067	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Beryllium	0.79		0.25	0.022	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Boron	2.9	J	3.1	0.13	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Cadmium	0.47	B	0.12	0.016	mg/Kg	☼	08/06/13 08:00	09/06/13 21:38	1
Calcium	4200	B	12	3.4	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Chromium	18		0.62	0.072	mg/Kg	☼	08/06/13 08:00	09/06/13 21:38	1
Cobalt	9.1		0.31	0.022	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Copper	21		0.62	0.055	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Iron	24000		12	5.1	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Lead	19	B	0.31	0.093	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Magnesium	3800	B	6.2	1.3	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Manganese	470		0.62	0.034	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Nickel	25	B	0.62	0.061	mg/Kg	☼	08/06/13 08:00	09/06/13 21:38	1
Potassium	1200		31	1.9	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Selenium	0.93		0.62	0.22	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Sodium	340		62	8.3	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Thallium	0.63		0.62	0.26	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Vanadium	22		0.31	0.046	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Zinc	55		1.2	0.25	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1
Aluminum	13000		12	1.1	mg/Kg	☼	08/06/13 08:00	09/06/13 04:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.20		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 17:57	1
Lead	0.0058	J	0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 17:57	1
Manganese	6.8		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 17:57	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 01:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 01:05	1
Boron	0.63		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 01:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 01:05	1
Chromium	0.036		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:05	1
Cobalt	0.0066	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 01:05	1
Iron	27		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 01:05	1
Lead	0.021		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 01:05	1
Manganese	0.15		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:05	1
Nickel	0.027		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:05	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 01:05	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 01:05	1
Zinc	0.36		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 01:05	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B04-1

Lab Sample ID: 500-60485-10

Date Collected: 08/05/13 15:15

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000071	J	0.00020	0.000020	mg/L	—	08/13/13 15:30	08/14/13 11:53	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.020	0.0093	mg/Kg	☼	08/08/13 14:30	08/09/13 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01		0.200	0.200	SU	—		08/17/13 09:30	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B04-2

Lab Sample ID: 500-60485-11

Date Collected: 08/05/13 15:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Chloromethane	<0.0041		0.0041	0.00085	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00053	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
1,1-Dichloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00053	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Ethylbenzene	<0.0041		0.0041	0.00082	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00067	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Styrene	<0.0041		0.0041	0.00053	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00082	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00055	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Vinyl chloride	<0.0041		0.0041	0.00085	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	08/05/13 15:20	08/09/13 04:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	08/05/13 15:20	08/09/13 04:32	1
Dibromofluoromethane	107		75 - 120	08/05/13 15:20	08/09/13 04:32	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/05/13 15:20	08/09/13 04:32	1
Toluene-d8 (Surr)	96		75 - 122	08/05/13 15:20	08/09/13 04:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B04-2

Lab Sample ID: 500-60485-11

Date Collected: 08/05/13 15:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Phenanthrene	0.025	J	0.037	0.016	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B04-2

Lab Sample ID: 500-60485-11

Date Collected: 08/05/13 15:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/12/13 07:16	08/17/13 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	44		30 - 110				08/12/13 07:16	08/17/13 23:20	1
Phenol-d5	53		31 - 110				08/12/13 07:16	08/17/13 23:20	1
Nitrobenzene-d5	37		30 - 115				08/12/13 07:16	08/17/13 23:20	1
2-Fluorobiphenyl	47		30 - 119				08/12/13 07:16	08/17/13 23:20	1
2,4,6-Tribromophenol	59		35 - 137				08/12/13 07:16	08/17/13 23:20	1
Terphenyl-d14	105		36 - 134				08/12/13 07:16	08/17/13 23:20	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0096		0.0096	0.0039	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
alpha-BHC	<0.0096		0.0096	0.0024	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
alpha-Chlordane	<0.0096		0.0096	0.0048	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
beta-BHC	<0.0096		0.0096	0.0029	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
4,4'-DDD	<0.0096		0.0096	0.0019	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
4,4'-DDE	<0.0096		0.0096	0.0016	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
4,4'-DDT	<0.0096	*	0.0096	0.0050	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
delta-BHC	<0.0096		0.0096	0.0030	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
Dieldrin	<0.0096		0.0096	0.0013	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
Endosulfan I	<0.0096		0.0096	0.0041	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
Endosulfan II	<0.0096		0.0096	0.0015	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
Endosulfan sulfate	<0.0096		0.0096	0.0017	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
Endrin	<0.0096		0.0096	0.0013	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
Endrin aldehyde	<0.0096		0.0096	0.0016	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
Endrin ketone	<0.0096		0.0096	0.0021	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
gamma-BHC (Lindane)	<0.0096		0.0096	0.0020	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
gamma-Chlordane	<0.0096		0.0096	0.0025	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
Heptachlor	<0.0096		0.0096	0.0040	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
Heptachlor epoxide	<0.0096		0.0096	0.0034	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
Methoxychlor	<0.047	*	0.047	0.0018	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
Toxaphene	<0.094		0.094	0.040	mg/Kg	☼	08/13/13 07:24	08/14/13 21:02	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		56 - 128				08/13/13 07:24	08/14/13 21:02	5
Tetrachloro-m-xylene	69		45 - 112				08/13/13 07:24	08/14/13 21:02	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B04-2

Lab Sample ID: 500-60485-11

Date Collected: 08/05/13 15:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Arsenic	7.4		0.55	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Barium	34		0.55	0.059	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Beryllium	0.52		0.22	0.019	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Boron	8.0		2.7	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Cadmium	0.081	J	0.11	0.014	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Calcium	85000	B	110	30	mg/Kg	☼	08/06/13 08:00	09/06/13 21:50	10
Chromium	13		0.55	0.064	mg/Kg	☼	08/06/13 08:00	09/06/13 21:44	1
Cobalt	8.4		0.27	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Copper	21		0.55	0.049	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Iron	17000		11	4.5	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Lead	9.4	B	0.27	0.082	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Magnesium	33000	B	5.5	1.1	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Manganese	440		0.55	0.030	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Nickel	22	B	0.55	0.054	mg/Kg	☼	08/06/13 08:00	09/06/13 21:44	1
Potassium	2000		27	1.6	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Silver	0.022	J B	0.27	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Sodium	180		55	7.3	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Thallium	0.57		0.55	0.23	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Vanadium	15		0.27	0.041	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Zinc	44		1.1	0.22	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1
Aluminum	7100		11	1.0	mg/Kg	☼	08/06/13 08:00	09/06/13 04:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 18:03	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J	0.50	0.010	mg/L		08/12/13 13:00	08/26/13 01:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 01:11	1
Boron	0.61		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 01:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 01:11	1
Chromium	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:11	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 01:11	1
Iron	0.93		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 01:11	1
Lead	0.018		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 01:11	1
Manganese	0.051		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:11	1
Nickel	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:11	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 01:11	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 01:11	1
Zinc	0.49		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 01:11	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B04-2

Lab Sample ID: 500-60485-11

Date Collected: 08/05/13 15:20

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000022	J	0.00020	0.000020	mg/L	—	08/13/13 15:30	08/14/13 11:55	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0082	mg/Kg	☼	08/09/13 15:00	08/12/13 10:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.99		0.200	0.200	SU	—		08/17/13 09:33	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B05-1

Lab Sample ID: 500-60485-12

Date Collected: 08/05/13 15:15

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00080	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00061	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	08/05/13 15:15	08/09/13 04:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/05/13 15:15	08/09/13 04:55	1
Dibromofluoromethane	105		75 - 120	08/05/13 15:15	08/09/13 04:55	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	08/05/13 15:15	08/09/13 04:55	1
Toluene-d8 (Surr)	94		75 - 122	08/05/13 15:15	08/09/13 04:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B05-1

Lab Sample ID: 500-60485-12

Date Collected: 08/05/13 15:15

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Dibenzofuran	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Butyl benzyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B05-1

Lab Sample ID: 500-60485-12

Date Collected: 08/05/13 15:15

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Benzo[a]pyrene	<0.038		0.038	0.0071	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/12/13 07:16	08/17/13 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		30 - 110	08/12/13 07:16	08/17/13 23:42	1
Phenol-d5	68		31 - 110	08/12/13 07:16	08/17/13 23:42	1
Nitrobenzene-d5	61		30 - 115	08/12/13 07:16	08/17/13 23:42	1
2-Fluorobiphenyl	65		30 - 119	08/12/13 07:16	08/17/13 23:42	1
2,4,6-Tribromophenol	65		35 - 137	08/12/13 07:16	08/17/13 23:42	1
Terphenyl-d14	104		36 - 134	08/12/13 07:16	08/17/13 23:42	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0099		0.0099	0.0040	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
alpha-BHC	<0.0099		0.0099	0.0025	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
alpha-Chlordane	<0.0099		0.0099	0.0049	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
beta-BHC	<0.0099		0.0099	0.0030	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
4,4'-DDD	<0.0099		0.0099	0.0019	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
4,4'-DDE	<0.0099		0.0099	0.0016	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
4,4'-DDT	<0.0099	*	0.0099	0.0051	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
delta-BHC	<0.0099		0.0099	0.0031	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
Dieldrin	<0.0099		0.0099	0.0013	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
Endosulfan I	<0.0099		0.0099	0.0043	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
Endosulfan II	<0.0099		0.0099	0.0016	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
Endosulfan sulfate	<0.0099		0.0099	0.0018	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
Endrin	<0.0099		0.0099	0.0013	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
Endrin aldehyde	<0.0099		0.0099	0.0016	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
Endrin ketone	<0.0099		0.0099	0.0022	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
gamma-BHC (Lindane)	<0.0099		0.0099	0.0021	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
gamma-Chlordane	<0.0099		0.0099	0.0025	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
Heptachlor	<0.0099		0.0099	0.0041	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
Heptachlor epoxide	<0.0099		0.0099	0.0035	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
Methoxychlor	<0.048	*	0.048	0.0019	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5
Toxaphene	<0.097		0.097	0.041	mg/Kg	☼	08/13/13 07:24	08/14/13 21:21	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		56 - 128	08/13/13 07:24	08/14/13 21:21	5
Tetrachloro-m-xylene	78		45 - 112	08/13/13 07:24	08/14/13 21:21	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B05-1

Lab Sample ID: 500-60485-12

Date Collected: 08/05/13 15:15

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Arsenic	7.6		0.59	0.12	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Barium	31		0.59	0.063	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Beryllium	0.49		0.24	0.021	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Boron	6.6		2.9	0.12	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Cadmium	0.069	J	0.12	0.015	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Calcium	56000	B	12	3.2	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Chromium	15		0.59	0.068	mg/Kg	☼	08/06/13 08:00	09/06/13 21:56	1
Cobalt	5.1		0.29	0.021	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Copper	22		0.59	0.052	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Iron	18000		12	4.8	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Lead	12	B	0.29	0.088	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Magnesium	28000	B	5.9	1.2	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Manganese	240		0.59	0.032	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Nickel	19	B	0.59	0.058	mg/Kg	☼	08/06/13 08:00	09/06/13 21:56	1
Potassium	1700		29	1.8	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Sodium	290		59	7.9	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Thallium	0.64		0.59	0.25	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Vanadium	15		0.29	0.044	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Zinc	48		1.2	0.24	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1
Aluminum	7300		12	1.1	mg/Kg	☼	08/06/13 08:00	09/06/13 05:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 18:09	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 18:09	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 01:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 01:17	1
Boron	0.68		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 01:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 01:17	1
Chromium	0.019	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:17	1
Cobalt	0.0057	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 01:17	1
Iron	18		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 01:17	1
Lead	0.012		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 01:17	1
Manganese	0.10		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:17	1
Nickel	0.018	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:17	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 01:17	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 01:17	1
Zinc	0.36		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 01:17	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B05-1

Lab Sample ID: 500-60485-12

Date Collected: 08/05/13 15:15

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000040	J	0.00020	0.000020	mg/L	—	08/13/13 15:30	08/14/13 11:57	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0084	mg/Kg	☼	08/09/13 15:00	08/12/13 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.69		0.200	0.200	SU	—		08/17/13 09:37	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B05-2

Lab Sample ID: 500-60485-13

Date Collected: 08/05/13 15:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0087		0.0041	0.0018	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Ethylbenzene	<0.0041		0.0041	0.00082	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00067	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00082	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	08/05/13 15:20	08/09/13 05:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	08/05/13 15:20	08/09/13 05:17	1
Dibromofluoromethane	106		75 - 120	08/05/13 15:20	08/09/13 05:17	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/05/13 15:20	08/09/13 05:17	1
Toluene-d8 (Surr)	96		75 - 122	08/05/13 15:20	08/09/13 05:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B05-2

Lab Sample ID: 500-60485-13

Date Collected: 08/05/13 15:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Phenanthrene	0.017	J	0.037	0.016	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B05-2

Lab Sample ID: 500-60485-13

Date Collected: 08/05/13 15:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/12/13 07:16	08/18/13 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		30 - 110				08/12/13 07:16	08/18/13 00:03	1
Phenol-d5	55		31 - 110				08/12/13 07:16	08/18/13 00:03	1
Nitrobenzene-d5	44		30 - 115				08/12/13 07:16	08/18/13 00:03	1
2-Fluorobiphenyl	52		30 - 119				08/12/13 07:16	08/18/13 00:03	1
2,4,6-Tribromophenol	55		35 - 137				08/12/13 07:16	08/18/13 00:03	1
Terphenyl-d14	95		36 - 134				08/12/13 07:16	08/18/13 00:03	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0092		0.0092	0.0038	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
alpha-BHC	<0.0092		0.0092	0.0023	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
alpha-Chlordane	<0.0092		0.0092	0.0046	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
beta-BHC	<0.0092		0.0092	0.0028	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
4,4'-DDD	<0.0092		0.0092	0.0018	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
4,4'-DDE	<0.0092		0.0092	0.0015	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
4,4'-DDT	<0.0092	*	0.0092	0.0048	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
delta-BHC	<0.0092		0.0092	0.0029	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
Dieldrin	<0.0092		0.0092	0.0012	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
Endosulfan I	<0.0092		0.0092	0.0040	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
Endosulfan II	<0.0092		0.0092	0.0015	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
Endosulfan sulfate	<0.0092		0.0092	0.0017	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
Endrin	<0.0092		0.0092	0.0013	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
Endrin aldehyde	<0.0092		0.0092	0.0015	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
Endrin ketone	<0.0092		0.0092	0.0020	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
gamma-BHC (Lindane)	<0.0092		0.0092	0.0020	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
gamma-Chlordane	<0.0092		0.0092	0.0024	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
Heptachlor	<0.0092		0.0092	0.0038	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
Heptachlor epoxide	<0.0092		0.0092	0.0032	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
Methoxychlor	<0.045	*	0.045	0.0018	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
Toxaphene	<0.091		0.091	0.038	mg/Kg	☼	08/13/13 07:24	08/14/13 21:40	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		56 - 128				08/13/13 07:24	08/14/13 21:40	5
Tetrachloro-m-xylene	63		45 - 112				08/13/13 07:24	08/14/13 21:40	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B05-2

Lab Sample ID: 500-60485-13

Date Collected: 08/05/13 15:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 87.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Arsenic	7.1		0.55	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Barium	34		0.55	0.059	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Beryllium	0.55		0.22	0.019	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Boron	9.1		2.7	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Cadmium	0.094	J	0.11	0.014	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Calcium	78000	B	110	30	mg/Kg	☼	08/06/13 08:00	09/06/13 22:24	10
Chromium	14		0.55	0.063	mg/Kg	☼	08/06/13 08:00	09/06/13 22:17	1
Cobalt	8.6		0.27	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Copper	24		0.55	0.049	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Iron	17000		11	4.5	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Lead	9.8	B	0.27	0.082	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Magnesium	32000	B	5.5	1.1	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Manganese	410		0.55	0.030	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Nickel	23	B	0.55	0.054	mg/Kg	☼	08/06/13 08:00	09/06/13 22:17	1
Potassium	2200		27	1.6	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Silver	0.032	J B	0.27	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Sodium	160		55	7.3	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Thallium	0.31	J	0.55	0.23	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Vanadium	16		0.27	0.040	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Zinc	47		1.1	0.22	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1
Aluminum	7500		11	1.0	mg/Kg	☼	08/06/13 08:00	09/06/13 05:08	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 01:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 01:23	1
Boron	0.71		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 01:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 01:23	1
Chromium	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:23	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 01:23	1
Iron	1.5		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 01:23	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 01:23	1
Manganese	0.049		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:23	1
Nickel	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:23	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 01:23	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 01:23	1
Zinc	0.35		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 01:23	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:27	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 11:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B05-2

Lab Sample ID: 500-60485-13

Date Collected: 08/05/13 15:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 87.3

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0079	mg/Kg	☼	08/09/13 15:00	08/12/13 10:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17		0.200	0.200	SU			08/17/13 09:40	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B06-1

Lab Sample ID: 500-60485-14

Date Collected: 08/05/13 15:35

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 79.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.019		0.0049	0.0021	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
1,1,1-Dichloroethane	<0.0049		0.0049	0.00079	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	08/05/13 15:35	08/09/13 05:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/05/13 15:35	08/09/13 05:40	1
Dibromofluoromethane	103		75 - 120	08/05/13 15:35	08/09/13 05:40	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/05/13 15:35	08/09/13 05:40	1
Toluene-d8 (Surr)	91		75 - 122	08/05/13 15:35	08/09/13 05:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B06-1

Lab Sample ID: 500-60485-14

Date Collected: 08/05/13 15:35

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 79.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Phenanthrene	0.033	J	0.040	0.017	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Fluoranthene	0.043		0.040	0.016	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Pyrene	0.057		0.040	0.014	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Benzo[a]anthracene	0.032	J	0.040	0.0084	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B06-1

Lab Sample ID: 500-60485-14

Date Collected: 08/05/13 15:35

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 79.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	08/12/13 07:16	08/18/13 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	27	X	30 - 110	08/12/13 07:16	08/18/13 00:25	1
Phenol-d5	31		31 - 110	08/12/13 07:16	08/18/13 00:25	1
Nitrobenzene-d5	26	X	30 - 115	08/12/13 07:16	08/18/13 00:25	1
2-Fluorobiphenyl	32		30 - 119	08/12/13 07:16	08/18/13 00:25	1
2,4,6-Tribromophenol	41		35 - 137	08/12/13 07:16	08/18/13 00:25	1
Terphenyl-d14	65		36 - 134	08/12/13 07:16	08/18/13 00:25	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.011		0.011	0.0043	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
alpha-BHC	<0.011		0.011	0.0026	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
alpha-Chlordane	<0.011		0.011	0.0052	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
beta-BHC	<0.011		0.011	0.0032	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
4,4'-DDD	<0.011		0.011	0.0021	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
4,4'-DDE	<0.011		0.011	0.0017	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
4,4'-DDT	<0.011	*	0.011	0.0054	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
delta-BHC	<0.011		0.011	0.0033	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
Dieldrin	<0.011		0.011	0.0014	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
Endosulfan I	<0.011		0.011	0.0045	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
Endosulfan II	<0.011		0.011	0.0017	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
Endosulfan sulfate	<0.011		0.011	0.0019	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
Endrin	<0.011		0.011	0.0014	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
Endrin aldehyde	<0.011		0.011	0.0017	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
Endrin ketone	<0.011		0.011	0.0023	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
gamma-BHC (Lindane)	<0.011		0.011	0.0022	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
gamma-Chlordane	<0.011		0.011	0.0027	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
Heptachlor	<0.011		0.011	0.0043	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
Heptachlor epoxide	<0.011		0.011	0.0037	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
Methoxychlor	<0.051	*	0.051	0.0020	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5
Toxaphene	<0.10		0.10	0.044	mg/Kg	☼	08/13/13 07:24	08/14/13 21:59	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		56 - 128	08/13/13 07:24	08/14/13 21:59	5
Tetrachloro-m-xylene	109		45 - 112	08/13/13 07:24	08/14/13 21:59	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B06-1

Lab Sample ID: 500-60485-14

Date Collected: 08/05/13 15:35

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 79.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Arsenic	6.3		0.61	0.12	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Barium	77		0.61	0.065	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Beryllium	0.60		0.24	0.022	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Boron	2.8	J	3.1	0.13	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Cadmium	<0.12		0.12	0.016	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Calcium	5400	B	12	3.3	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Chromium	15		0.61	0.071	mg/Kg	☼	08/06/13 08:00	09/06/13 22:30	1
Cobalt	11		0.31	0.022	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Copper	20		0.61	0.054	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Iron	18000		12	5.0	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Lead	35	B	0.31	0.091	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Magnesium	4200	B	6.1	1.3	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Manganese	360		0.61	0.033	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Nickel	18	B	0.61	0.060	mg/Kg	☼	08/06/13 08:00	09/06/13 22:30	1
Potassium	850		31	1.8	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Selenium	0.73		0.61	0.22	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Sodium	1100		61	8.2	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Thallium	<0.61		0.61	0.26	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Vanadium	19		0.31	0.045	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Zinc	56		1.2	0.25	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1
Aluminum	8000		12	1.1	mg/Kg	☼	08/06/13 08:00	09/06/13 05:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.39		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 18:15	1
Lead	0.023		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 18:15	1
Manganese	12		0.25	0.10	mg/L		08/29/13 10:00	09/08/13 10:43	10

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.83		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 01:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 01:30	1
Boron	0.79		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 01:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 01:30	1
Chromium	0.052		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:30	1
Cobalt	0.027		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 01:30	1
Iron	55		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 01:30	1
Lead	0.093		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 01:30	1
Manganese	1.4		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:30	1
Nickel	0.057		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:30	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 01:30	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 01:30	1
Zinc	0.49		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 01:30	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B06-1

Lab Sample ID: 500-60485-14

Date Collected: 08/05/13 15:35

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J	0.00020	0.000020	mg/L	—	08/13/13 15:30	08/14/13 12:05	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.020	0.0094	mg/Kg	☼	08/09/13 15:00	08/12/13 10:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.68		0.200	0.200	SU	—		08/17/13 09:44	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B06-2

Lab Sample ID: 500-60485-15

Date Collected: 08/05/13 15:40

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0094		0.0047	0.0020	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Bromodichloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Chloromethane	<0.0047		0.0047	0.0010	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
1,1-Dichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00065	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Vinyl chloride	<0.0047		0.0047	0.0010	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	08/05/13 15:40	08/09/13 08:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/05/13 15:40	08/09/13 08:24	1
Dibromofluoromethane	111		75 - 120	08/05/13 15:40	08/09/13 08:24	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	08/05/13 15:40	08/09/13 08:24	1
Toluene-d8 (Surr)	96		75 - 122	08/05/13 15:40	08/09/13 08:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B06-2

Lab Sample ID: 500-60485-15

Date Collected: 08/05/13 15:40

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B06-2

Lab Sample ID: 500-60485-15

Date Collected: 08/05/13 15:40

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/12/13 07:16	08/18/13 00:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		30 - 110				08/12/13 07:16	08/18/13 00:47	1
Phenol-d5	50		31 - 110				08/12/13 07:16	08/18/13 00:47	1
Nitrobenzene-d5	38		30 - 115				08/12/13 07:16	08/18/13 00:47	1
2-Fluorobiphenyl	47		30 - 119				08/12/13 07:16	08/18/13 00:47	1
2,4,6-Tribromophenol	40		35 - 137				08/12/13 07:16	08/18/13 00:47	1
Terphenyl-d14	64		36 - 134				08/12/13 07:16	08/18/13 00:47	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.010		0.010	0.0041	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
alpha-BHC	<0.010		0.010	0.0025	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
alpha-Chlordane	<0.010		0.010	0.0050	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
beta-BHC	<0.010		0.010	0.0031	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
4,4'-DDD	<0.010		0.010	0.0020	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
4,4'-DDE	<0.010		0.010	0.0016	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
4,4'-DDT	<0.010	*	0.010	0.0052	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
delta-BHC	<0.010		0.010	0.0031	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
Dieldrin	<0.010		0.010	0.0014	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
Endosulfan I	<0.010		0.010	0.0043	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
Endosulfan II	<0.010		0.010	0.0016	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
Endosulfan sulfate	<0.010		0.010	0.0018	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
Endrin	<0.010		0.010	0.0014	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
Endrin aldehyde	<0.010		0.010	0.0017	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
Endrin ketone	<0.010		0.010	0.0022	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
gamma-BHC (Lindane)	<0.010		0.010	0.0022	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
gamma-Chlordane	<0.010		0.010	0.0026	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
Heptachlor	<0.010		0.010	0.0042	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
Heptachlor epoxide	<0.010		0.010	0.0035	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
Methoxychlor	<0.049	*	0.049	0.0019	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
Toxaphene	<0.099		0.099	0.042	mg/Kg	☼	08/13/13 07:24	08/14/13 22:18	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		56 - 128				08/13/13 07:24	08/14/13 22:18	5
Tetrachloro-m-xylene	71		45 - 112				08/13/13 07:24	08/14/13 22:18	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B06-2

Lab Sample ID: 500-60485-15

Date Collected: 08/05/13 15:40

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 82.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Arsenic	11		0.60	0.12	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Barium	34		0.60	0.064	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Beryllium	0.64		0.24	0.021	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Boron	6.6		3.0	0.13	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Cadmium	<0.12		0.12	0.015	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Calcium	33000	B	12	3.2	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Chromium	16		0.60	0.069	mg/Kg	☼	08/06/13 08:00	09/06/13 22:36	1
Cobalt	7.3		0.30	0.021	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Copper	27		0.60	0.053	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Iron	23000		12	4.9	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Lead	13	B	0.30	0.089	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Magnesium	22000	B	6.0	1.2	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Manganese	270		0.60	0.032	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Nickel	21	B	0.60	0.059	mg/Kg	☼	08/06/13 08:00	09/06/13 22:36	1
Potassium	1700		30	1.8	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Sodium	450		60	8.0	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Thallium	0.69		0.60	0.25	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Vanadium	20		0.30	0.044	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Zinc	63		1.2	0.24	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1
Aluminum	9200		12	1.1	mg/Kg	☼	08/06/13 08:00	09/06/13 05:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.25		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 18:21	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 18:21	1
Manganese	0.93		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 18:21	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.65		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 01:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 01:36	1
Boron	0.83		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 01:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 01:36	1
Chromium	0.020	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:36	1
Cobalt	0.0066	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 01:36	1
Iron	21		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 01:36	1
Lead	0.013		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 01:36	1
Manganese	0.15		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:36	1
Nickel	0.022	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:36	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 01:36	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 01:36	1
Zinc	0.45		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 01:36	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B06-2

Lab Sample ID: 500-60485-15

Date Collected: 08/05/13 15:40

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000036	J	0.00020	0.000020	mg/L	—	08/13/13 15:30	08/14/13 12:07	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0086	mg/Kg	☼	08/09/13 15:00	08/12/13 10:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.41		0.200	0.200	SU	—		08/17/13 09:47	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B07-1

Lab Sample ID: 500-60485-16

Date Collected: 08/05/13 14:25

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015		0.0052	0.0022	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Vinyl acetate	<0.0052		0.0052	0.00081	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	08/05/13 14:25	08/09/13 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/05/13 14:25	08/09/13 19:27	1
Dibromofluoromethane	106		75 - 120	08/05/13 14:25	08/09/13 19:27	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/05/13 14:25	08/09/13 19:27	1
Toluene-d8 (Surr)	93		75 - 122	08/05/13 14:25	08/09/13 19:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B07-1

Lab Sample ID: 500-60485-16

Date Collected: 08/05/13 14:25

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Pyrene	0.016	J	0.039	0.014	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B07-1

Lab Sample ID: 500-60485-16

Date Collected: 08/05/13 14:25

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/12/13 07:16	08/18/13 01:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	41		30 - 110				08/12/13 07:16	08/18/13 01:09	1
Phenol-d5	42		31 - 110				08/12/13 07:16	08/18/13 01:09	1
Nitrobenzene-d5	34		30 - 115				08/12/13 07:16	08/18/13 01:09	1
2-Fluorobiphenyl	40		30 - 119				08/12/13 07:16	08/18/13 01:09	1
2,4,6-Tribromophenol	55		35 - 137				08/12/13 07:16	08/18/13 01:09	1
Terphenyl-d14	88		36 - 134				08/12/13 07:16	08/18/13 01:09	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.010		0.010	0.0041	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
alpha-BHC	<0.010		0.010	0.0025	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
alpha-Chlordane	<0.010		0.010	0.0050	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
beta-BHC	<0.010		0.010	0.0031	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
4,4'-DDD	<0.010		0.010	0.0020	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
4,4'-DDE	<0.010		0.010	0.0016	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
4,4'-DDT	<0.010	*	0.010	0.0052	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
delta-BHC	<0.010		0.010	0.0031	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
Dieldrin	<0.010		0.010	0.0014	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
Endosulfan I	<0.010		0.010	0.0044	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
Endosulfan II	<0.010		0.010	0.0016	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
Endosulfan sulfate	<0.010		0.010	0.0018	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
Endrin	<0.010		0.010	0.0014	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
Endrin aldehyde	<0.010		0.010	0.0017	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
Endrin ketone	<0.010		0.010	0.0023	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
gamma-BHC (Lindane)	<0.010		0.010	0.0022	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
gamma-Chlordane	<0.010		0.010	0.0026	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
Heptachlor	<0.010		0.010	0.0042	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
Heptachlor epoxide	<0.010		0.010	0.0035	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
Methoxychlor	<0.049	*	0.049	0.0019	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
Toxaphene	<0.099		0.099	0.042	mg/Kg	☼	08/13/13 07:24	08/14/13 22:37	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		56 - 128				08/13/13 07:24	08/14/13 22:37	5
Tetrachloro-m-xylene	78		45 - 112				08/13/13 07:24	08/14/13 22:37	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B07-1

Lab Sample ID: 500-60485-16

Date Collected: 08/05/13 14:25

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Arsenic	9.6		0.57	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Barium	65		0.57	0.061	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Beryllium	0.64		0.23	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Boron	2.6	J	2.9	0.12	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Cadmium	0.34	B	0.11	0.015	mg/Kg	☼	08/06/13 08:00	09/06/13 22:42	1
Calcium	7700	B	11	3.1	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Chromium	16		0.57	0.067	mg/Kg	☼	08/06/13 08:00	09/06/13 22:42	1
Cobalt	11		0.29	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Copper	19		0.57	0.051	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Iron	19000		11	4.7	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Lead	27	B	0.29	0.085	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Magnesium	6100	B	5.7	1.2	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Manganese	430		0.57	0.031	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Nickel	21	B	0.57	0.056	mg/Kg	☼	08/06/13 08:00	09/06/13 22:42	1
Potassium	1100		29	1.7	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Selenium	0.65		0.57	0.20	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Sodium	1000		57	7.7	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Thallium	0.50	J	0.57	0.24	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Vanadium	22		0.29	0.042	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Zinc	48		1.1	0.23	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1
Aluminum	10000		11	1.1	mg/Kg	☼	08/06/13 08:00	09/06/13 05:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.56		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 18:28	1
Lead	0.017		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 18:28	1
Manganese	22		0.25	0.10	mg/L		08/29/13 10:00	09/08/13 10:49	10

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 01:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 01:57	1
Boron	0.74		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 01:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 01:57	1
Chromium	0.012	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:57	1
Cobalt	0.012	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 01:57	1
Iron	11		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 01:57	1
Lead	0.045		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 01:57	1
Manganese	0.79		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:57	1
Nickel	0.015	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 01:57	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 01:57	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 01:57	1
Zinc	0.38		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 01:57	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B07-1

Lab Sample ID: 500-60485-16

Date Collected: 08/05/13 14:25

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000069	J	0.00020	0.000020	mg/L	—	08/13/13 15:30	08/14/13 12:09	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.0096	mg/Kg	☼	08/09/13 15:00	08/12/13 10:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.73		0.200	0.200	SU	—		08/17/13 09:51	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B07-1 DUP

Lab Sample ID: 500-60485-17

Date Collected: 08/05/13 14:40

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.013		0.0040	0.0017	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Bromodichloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Bromoform	<0.0040		0.0040	0.00093	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Chloromethane	<0.0040		0.0040	0.00085	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
1,1-Dichloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
1,1-Dichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Ethylbenzene	<0.0040		0.0040	0.00082	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0011	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00067	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Tetrachloroethene	<0.0040		0.0040	0.00062	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Toluene	<0.0040		0.0040	0.00057	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00056	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Trichloroethene	<0.0040		0.0040	0.00067	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Vinyl chloride	<0.0040		0.0040	0.00085	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	08/05/13 14:40	08/09/13 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/05/13 14:40	08/09/13 19:49	1
Dibromofluoromethane	106		75 - 120	08/05/13 14:40	08/09/13 19:49	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	08/05/13 14:40	08/09/13 19:49	1
Toluene-d8 (Surr)	94		75 - 122	08/05/13 14:40	08/09/13 19:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B07-1 DUP

Lab Sample ID: 500-60485-17

Date Collected: 08/05/13 14:40

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Fluoranthene	0.022	J	0.038	0.016	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Pyrene	0.034	J	0.038	0.014	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Benzo[a]anthracene	0.0094	J	0.038	0.0079	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B07-1 DUP

Lab Sample ID: 500-60485-17

Date Collected: 08/05/13 14:40

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.022	J	0.038	0.0086	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/12/13 07:16	08/18/13 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		30 - 110	08/12/13 07:16	08/18/13 01:31	1
Phenol-d5	52		31 - 110	08/12/13 07:16	08/18/13 01:31	1
Nitrobenzene-d5	47		30 - 115	08/12/13 07:16	08/18/13 01:31	1
2-Fluorobiphenyl	57		30 - 119	08/12/13 07:16	08/18/13 01:31	1
2,4,6-Tribromophenol	77		35 - 137	08/12/13 07:16	08/18/13 01:31	1
Terphenyl-d14	154	X	36 - 134	08/12/13 07:16	08/18/13 01:31	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0094		0.0094	0.0038	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
alpha-BHC	<0.0094		0.0094	0.0023	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
alpha-Chlordane	<0.0094		0.0094	0.0047	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
beta-BHC	<0.0094		0.0094	0.0029	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
4,4'-DDD	<0.0094		0.0094	0.0018	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
4,4'-DDE	<0.0094		0.0094	0.0015	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
4,4'-DDT	<0.0094	*	0.0094	0.0049	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
delta-BHC	<0.0094		0.0094	0.0029	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
Dieldrin	<0.0094		0.0094	0.0013	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
Endosulfan I	<0.0094		0.0094	0.0040	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
Endosulfan II	<0.0094		0.0094	0.0015	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
Endosulfan sulfate	<0.0094		0.0094	0.0017	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
Endrin	<0.0094		0.0094	0.0013	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
Endrin aldehyde	<0.0094		0.0094	0.0016	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
Endrin ketone	<0.0094		0.0094	0.0021	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
gamma-BHC (Lindane)	<0.0094		0.0094	0.0020	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
gamma-Chlordane	<0.0094		0.0094	0.0024	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
Heptachlor	<0.0094		0.0094	0.0039	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
Heptachlor epoxide	<0.0094		0.0094	0.0033	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
Methoxychlor	<0.046	*	0.046	0.0018	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5
Toxaphene	<0.092		0.092	0.039	mg/Kg	☼	08/13/13 07:24	08/14/13 22:56	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		56 - 128	08/13/13 07:24	08/14/13 22:56	5
Tetrachloro-m-xylene	93		45 - 112	08/13/13 07:24	08/14/13 22:56	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B07-1 DUP

Lab Sample ID: 500-60485-17

Date Collected: 08/05/13 14:40

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Arsenic	9.5		0.55	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Barium	50		0.55	0.058	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Beryllium	0.60		0.22	0.019	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Boron	5.1		2.7	0.11	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Cadmium	<0.11		0.11	0.014	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Calcium	18000	B	11	3.0	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Chromium	15		0.55	0.063	mg/Kg	☼	08/06/13 08:00	09/06/13 22:48	1
Cobalt	11		0.27	0.019	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Copper	20		0.55	0.048	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Iron	21000		11	4.5	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Lead	17	B	0.27	0.081	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Magnesium	13000	B	5.5	1.1	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Manganese	450		0.55	0.030	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Nickel	25	B	0.55	0.054	mg/Kg	☼	08/06/13 08:00	09/06/13 22:48	1
Potassium	1500		27	1.6	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Selenium	0.30	J	0.55	0.19	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Sodium	810		55	7.3	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Vanadium	18		0.27	0.040	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Zinc	45		1.1	0.22	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1
Aluminum	9400		11	1.0	mg/Kg	☼	08/06/13 08:00	09/06/13 05:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/29/13 10:00	09/07/13 18:34	1
Iron	0.20		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 18:34	1
Lead	0.0095		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 18:34	1
Manganese	19		0.25	0.10	mg/L		08/29/13 10:00	09/08/13 10:55	10
Nickel	0.019	J	0.025	0.010	mg/L		08/29/13 10:00	09/07/13 18:34	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.87		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 02:03	1
Beryllium	0.0047		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 02:03	1
Boron	0.80		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 02:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 02:03	1
Chromium	0.092		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 02:03	1
Cobalt	0.047		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 02:03	1
Iron	100		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 02:03	1
Lead	0.085		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 02:03	1
Manganese	1.6		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 02:03	1
Nickel	0.11		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 02:03	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 02:03	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 02:03	1
Zinc	0.59		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 02:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B07-1 DUP

Lab Sample ID: 500-60485-17

Date Collected: 08/05/13 14:40

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:35	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 12:11	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0084	mg/Kg	☼	08/09/13 15:00	08/12/13 10:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.90		0.200	0.200	SU			08/17/13 09:54	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B07-2

Lab Sample ID: 500-60485-18

Date Collected: 08/05/13 14:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 75.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.024		0.0054	0.0024	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Benzene	<0.0054		0.0054	0.00075	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Bromodichloromethane	<0.0054		0.0054	0.00094	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Bromoform	<0.0054		0.0054	0.0013	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
2-Butanone (MEK)	<0.0054		0.0054	0.0020	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Carbon disulfide	<0.0054		0.0054	0.00081	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Carbon tetrachloride	<0.0054		0.0054	0.00099	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Chloroform	<0.0054		0.0054	0.00063	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00077	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Dibromochloromethane	<0.0054		0.0054	0.00095	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
1,1-Dichloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
1,2-Dichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
1,1,1-Dichloroethane	<0.0054		0.0054	0.00088	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
1,2-Dichloropropane	<0.0054		0.0054	0.00083	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00090	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
1,1,1,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Tetrachloroethene	<0.0054		0.0054	0.00083	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Toluene	<0.0054		0.0054	0.00076	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00075	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00098	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00074	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Trichloroethene	<0.0054		0.0054	0.00090	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Vinyl acetate	<0.0054		0.0054	0.00086	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	08/05/13 14:30	08/09/13 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/05/13 14:30	08/09/13 20:12	1
Dibromofluoromethane	107		75 - 120	08/05/13 14:30	08/09/13 20:12	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/05/13 14:30	08/09/13 20:12	1
Toluene-d8 (Surr)	96		75 - 122	08/05/13 14:30	08/09/13 20:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.068	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
1,3-Dichlorobenzene	<0.22		0.22	0.045	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
1,4-Dichlorobenzene	<0.22		0.22	0.045	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B07-2

Lab Sample ID: 500-60485-18

Date Collected: 08/05/13 14:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 75.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
2-Methylphenol	<0.22		0.22	0.057	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.048	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.055	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Hexachloroethane	<0.22		0.22	0.046	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
2-Chlorophenol	<0.22		0.22	0.062	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Nitrobenzene	<0.043		0.043	0.013	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.048	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
2,4-Dimethylphenol	<0.43		0.43	0.13	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Hexachlorobutadiene	<0.22		0.22	0.056	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Naphthalene	<0.043		0.043	0.0083	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
2,4-Dichlorophenol	<0.43		0.43	0.13	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
4-Chloroaniline	<0.87		0.87	0.13	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
2,4,6-Trichlorophenol	<0.43		0.43	0.054	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
2,4,5-Trichlorophenol	<0.43		0.43	0.12	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Hexachlorocyclopentadiene	<0.87		0.87	0.20	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
2-Methylnaphthalene	<0.22		0.22	0.056	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
2-Nitroaniline	<0.22		0.22	0.077	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
4-Chloro-3-methylphenol	<0.43		0.43	0.21	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
2,6-Dinitrotoluene	<0.22		0.22	0.051	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
2-Nitrophenol	<0.43		0.43	0.067	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
3-Nitroaniline	<0.43		0.43	0.083	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Dimethyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
2,4-Dinitrophenol	<0.87		0.87	0.22	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Acenaphthylene	<0.043		0.043	0.0099	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
2,4-Dinitrotoluene	<0.22		0.22	0.066	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Acenaphthene	<0.043		0.043	0.013	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Dibenzofuran	<0.22		0.22	0.052	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
4-Nitrophenol	<0.87		0.87	0.23	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Fluorene	<0.043		0.043	0.0098	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
4-Nitroaniline	<0.43		0.43	0.088	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.048	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Hexachlorobenzene	<0.087		0.087	0.0085	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Diethyl phthalate	<0.22		0.22	0.072	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.068	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Pentachlorophenol	<0.87		0.87	0.22	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
N-Nitrosodiphenylamine	<0.22		0.22	0.058	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
4,6-Dinitro-2-methylphenol	<0.43		0.43	0.10	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Phenanthrene	<0.043		0.043	0.018	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Anthracene	<0.043		0.043	0.010	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Carbazole	<0.22		0.22	0.060	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Di-n-butyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Fluoranthene	<0.043		0.043	0.018	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Pyrene	<0.043		0.043	0.016	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Butyl benzyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Benzo[a]anthracene	<0.043		0.043	0.0090	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B07-2

Lab Sample ID: 500-60485-18

Date Collected: 08/05/13 14:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 75.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.043		0.043	0.0097	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.036	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.057	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Di-n-octyl phthalate	<0.22		0.22	0.087	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Benzo[b]fluoranthene	<0.043		0.043	0.0084	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Benzo[k]fluoranthene	<0.043		0.043	0.010	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Benzo[a]pyrene	<0.043		0.043	0.0078	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.015	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Dibenz(a,h)anthracene	<0.043		0.043	0.012	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Benzo[g,h,i]perylene	<0.043		0.043	0.015	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
3 & 4 Methylphenol	<0.22		0.22	0.081	mg/Kg	☼	08/12/13 07:16	08/18/13 01:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		30 - 110				08/12/13 07:16	08/18/13 01:53	1
Phenol-d5	48		31 - 110				08/12/13 07:16	08/18/13 01:53	1
Nitrobenzene-d5	40		30 - 115				08/12/13 07:16	08/18/13 01:53	1
2-Fluorobiphenyl	47		30 - 119				08/12/13 07:16	08/18/13 01:53	1
2,4,6-Tribromophenol	66		35 - 137				08/12/13 07:16	08/18/13 01:53	1
Terphenyl-d14	112		36 - 134				08/12/13 07:16	08/18/13 01:53	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.011		0.011	0.0046	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
alpha-BHC	<0.011		0.011	0.0028	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
alpha-Chlordane	<0.011		0.011	0.0056	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
beta-BHC	<0.011		0.011	0.0034	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
4,4'-DDD	<0.011		0.011	0.0022	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
4,4'-DDE	<0.011		0.011	0.0018	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
4,4'-DDT	<0.011	*	0.011	0.0058	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
delta-BHC	<0.011		0.011	0.0035	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
Dieldrin	<0.011		0.011	0.0015	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
Endosulfan I	<0.011		0.011	0.0048	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
Endosulfan II	<0.011		0.011	0.0018	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
Endosulfan sulfate	<0.011		0.011	0.0020	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
Endrin	<0.011		0.011	0.0015	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
Endrin aldehyde	<0.011		0.011	0.0019	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
Endrin ketone	<0.011		0.011	0.0025	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
gamma-BHC (Lindane)	<0.011		0.011	0.0024	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
gamma-Chlordane	<0.011		0.011	0.0029	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
Heptachlor	<0.011		0.011	0.0046	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
Heptachlor epoxide	<0.011		0.011	0.0039	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
Methoxychlor	<0.055	*	0.055	0.0021	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
Toxaphene	<0.11		0.11	0.047	mg/Kg	☼	08/13/13 07:24	08/14/13 23:15	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		56 - 128				08/13/13 07:24	08/14/13 23:15	5
Tetrachloro-m-xylene	75		45 - 112				08/13/13 07:24	08/14/13 23:15	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B07-2

Lab Sample ID: 500-60485-18

Date Collected: 08/05/13 14:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 75.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.52	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Arsenic	6.4		0.65	0.13	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Barium	49		0.65	0.070	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Beryllium	0.70		0.26	0.023	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Boron	2.7	J	3.2	0.14	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Cadmium	0.28	B	0.13	0.017	mg/Kg	☼	08/06/13 08:00	09/06/13 22:55	1
Calcium	2800	B	13	3.5	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Chromium	18		0.65	0.075	mg/Kg	☼	08/06/13 08:00	09/06/13 22:55	1
Cobalt	6.3		0.32	0.023	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Copper	17		0.65	0.058	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Iron	21000		13	5.3	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Lead	18	B	0.32	0.097	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Magnesium	3600	B	6.5	1.3	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Manganese	270		0.65	0.035	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Nickel	20	B	0.65	0.064	mg/Kg	☼	08/06/13 08:00	09/06/13 22:55	1
Potassium	1300		32	2.0	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Selenium	0.73		0.65	0.23	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Silver	<0.32		0.32	0.024	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Sodium	520		65	8.7	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Thallium	0.59	J	0.65	0.27	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Vanadium	23		0.32	0.048	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Zinc	66		1.3	0.26	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1
Aluminum	11000		13	1.2	mg/Kg	☼	08/06/13 08:00	09/06/13 05:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.46		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 18:40	1
Lead	0.0083		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 18:40	1
Manganese	2.6		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 18:40	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.80		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 02:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 02:09	1
Boron	0.85		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 02:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 02:09	1
Chromium	0.061		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 02:09	1
Cobalt	0.019	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 02:09	1
Iron	60		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 02:09	1
Lead	0.050		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 02:09	1
Manganese	0.95		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 02:09	1
Nickel	0.054		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 02:09	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 02:09	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 02:09	1
Zinc	0.56		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 02:09	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Client Sample ID: 846D-105-B07-2

Lab Sample ID: 500-60485-18

Date Collected: 08/05/13 14:30

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000020	mg/L	—	08/13/13 15:30	08/14/13 12:13	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.022	0.010	mg/Kg	☼	08/09/13 15:00	08/12/13 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.25		0.200	0.200	SU	—		08/17/13 09:58	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Information Project Name: <u>US6/IL7 Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: _____ of _____ Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/39</u> Matrix Key: _____												
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.				ANALYSES														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments		
1	846D-103-B01	8/5	12:45	S	X	X					X	X	X	X				
2	846D-103-B02	8/5	12:35	S	X	X					X	X	X	X				
<div style="position: absolute; top: 50px; left: 50px; font-size: 2em; opacity: 0.5;"> </div>																		
Relinquished by: _____					Date/Time	Received by: _____					Date/Time	8/5/13 4:00						
Relinquished by: _____					Date/Time	Received by: _____					Date/Time	8/5/13 1655						
Relinquished by: _____					Date/Time	Received by: _____					Date/Time	8/5/13 1655						



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US6/IL7WileyCook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: AEZ	COC No.: 1 of 2 Lab Job No.: 500-60485 Sample Temp: 38.4/3.5/37.3/3.9 Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other								
SPECIAL INSTRUCTIONS: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.											
ANALYSES											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	7.5-15
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X								



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7 Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____	COC No.: _____ of _____ Lab Job No.: _____ Sample Temp: <u>500-60485</u> Matrix Key: <u>3846353739</u> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
26	846D-108-B01	8/5	11:05	S	X	X					X	X	X	X		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> Relinquished by: Relinquished by: Relinquished by: _____ </div> <div style="width: 30%;"> Date/Time: <u>8/5/13 7:00</u> Date/Time: <u>8/5/13 1055</u> Date/Time: _____ </div> <div style="width: 30%;"> Received by: Received by: Received by: _____ </div> </div>																



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Name: US6/IL7Willow Creek Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: _____ of _____ Lab Job No.: 500-60485 Sample Temp: 38.4/35.3/39 Matrix Key:																						
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.				Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other																								
		ANALYSES																										
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments												
43	846D-116-B01	8/5	9:45	S	X	X					X	X	X	X														
44	846D-116-B02	↓	9:40	S	X	X					X	X	X	X														
45	846D-116-B03	↓	9:40	S	X	X					X	X	X	X														
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">Relinquished by: </td> <td style="width:10%;">Date/Time: 8/5/13 4:00</td> <td style="width:30%;">Received by: </td> <td style="width:10%;">Date/Time: 8-5-13/1600</td> </tr> <tr> <td>Relinquished by: </td> <td>Date/Time: 8/5/13 1655</td> <td>Received by: </td> <td>Date/Time: 8/5/13 1655</td> </tr> <tr> <td>Relinquished by: </td> <td></td> <td>Received by:</td> <td></td> </tr> </table>																	Relinquished by:	Date/Time: 8/5/13 4:00	Received by:	Date/Time: 8-5-13/1600	Relinquished by:	Date/Time: 8/5/13 1655	Received by:	Date/Time: 8/5/13 1655	Relinquished by:		Received by:	
Relinquished by:	Date/Time: 8/5/13 4:00	Received by:	Date/Time: 8-5-13/1600																									
Relinquished by:	Date/Time: 8/5/13 1655	Received by:	Date/Time: 8/5/13 1655																									
Relinquished by:		Received by:																										



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>US6/IL7 Willow & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>A&Z</u>	Administrative COC No.: <u>2</u> of <u>2</u> Lab Job No.: <u>500-100485</u> Sample Temp: <u>38.4/35.3/33.9</u> Matrix Key:													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
15	846D-105-B06-2	8/5/13	3:40	S	X	X			X		X	X	X	X		7.5-15
16	846D-105-B07-1		2:25	S	X	X			X		X	X	X	X		0-7.5
17	846D-105-B07-DUP		2:40	S	X	X			X		X	X	X	X		0-7.5
18	846D-105-B07-2		2:30	S	X	X			X		X	X	X	X		7.5-15
19	846D-105-B08-1		1:20	S	X	X			X		X	X	X	X		0-7.5
20	846D-105-B08-2		1:30	S	X	X			X		X	X	X	X		7.5-15
Relinquished by: <u>Paul A. Wright (MET)</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	8/5/13 4:15				
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	8/5/13 10:55				
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	8/5/13 10:55				



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Approximately 12263 - 12539 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60003 Longitude: -87.91977
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60003 Longitude: -87.91977

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-106-B02 THROUGH -B04 WERE SAMPLED ADJACENT TO SITE NO. 846D-106. SEE FIGURES 18 & 19, AND TABLE 3ck OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60485-3

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

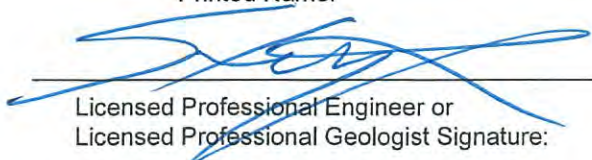
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/19/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-60485-3

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/9/2013 4:58:26 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Client Sample ID: 846D-106-B02

Lab Sample ID: 500-60485-22

Date Collected: 08/05/13 11:35

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0063	*	0.0043	0.0019	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	08/05/13 11:35	08/14/13 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	08/05/13 11:35	08/14/13 13:51	1
Dibromofluoromethane	105		75 - 120	08/05/13 11:35	08/14/13 13:51	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/05/13 11:35	08/14/13 13:51	1
Toluene-d8 (Surr)	93		75 - 122	08/05/13 11:35	08/14/13 13:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Client Sample ID: 846D-106-B02

Lab Sample ID: 500-60485-22

Date Collected: 08/05/13 11:35

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Client Sample ID: 846D-106-B02

Lab Sample ID: 500-60485-22

Date Collected: 08/05/13 11:35

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/12/13 07:23	08/18/13 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		30 - 110	08/12/13 07:23	08/18/13 17:26	1
Phenol-d5	68		31 - 110	08/12/13 07:23	08/18/13 17:26	1
Nitrobenzene-d5	63		30 - 115	08/12/13 07:23	08/18/13 17:26	1
2-Fluorobiphenyl	64		30 - 119	08/12/13 07:23	08/18/13 17:26	1
2,4,6-Tribromophenol	63		35 - 137	08/12/13 07:23	08/18/13 17:26	1
Terphenyl-d14	80		36 - 134	08/12/13 07:23	08/18/13 17:26	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00078	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
alpha-Chlordane	<0.0019		0.0019	0.00095	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
4,4'-DDT	<0.0019		0.0019	0.00099	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
Endosulfan I	<0.0019		0.0019	0.00082	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00041	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
Heptachlor	<0.0019		0.0019	0.00079	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
Heptachlor epoxide	<0.0019		0.0019	0.00067	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	08/10/13 13:31	08/14/13 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		56 - 128	08/10/13 13:31	08/14/13 22:08	1
Tetrachloro-m-xylene	61		45 - 112	08/10/13 13:31	08/14/13 22:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Client Sample ID: 846D-106-B02

Lab Sample ID: 500-60485-22

Date Collected: 08/05/13 11:35

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Arsenic	13		0.57	0.11	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Barium	37		0.57	0.061	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Beryllium	0.66		0.23	0.020	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Boron	3.6		2.9	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Cadmium	0.065	J B	0.11	0.015	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Calcium	1400	B	11	3.1	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Chromium	18		0.57	0.066	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Cobalt	14		0.29	0.020	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Copper	27	B	0.57	0.051	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Iron	27000		11	4.7	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Lead	23		0.29	0.085	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Magnesium	3300	B	5.7	1.2	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Manganese	570	B	0.57	0.031	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Nickel	23		0.57	0.056	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Potassium	1400		29	1.7	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Selenium	0.72		0.57	0.20	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Sodium	150		57	7.7	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Thallium	0.40	J	0.57	0.24	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Vanadium	24		0.29	0.042	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Zinc	57		1.1	0.23	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1
Aluminum	12000	B	11	1.1	mg/Kg	☼	08/07/13 10:28	08/24/13 18:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.72	B	0.50	0.010	mg/L		08/29/13 10:00	09/07/13 19:19	1
Boron	0.91		0.10	0.050	mg/L		08/29/13 10:00	09/07/13 19:19	1
Iron	0.25		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 19:19	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 19:19	1
Manganese	0.066		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 19:19	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	2.8		2.5	0.050	mg/L		08/12/13 13:00	08/26/13 02:49	5
Beryllium	<0.020		0.020	0.020	mg/L		08/12/13 13:00	08/26/13 02:49	5
Boron	4.0		0.50	0.25	mg/L		08/12/13 13:00	08/26/13 02:49	5
Cadmium	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 02:49	5
Chromium	<0.13		0.13	0.050	mg/L		08/12/13 13:00	08/26/13 02:49	5
Cobalt	<0.13		0.13	0.025	mg/L		08/12/13 13:00	08/26/13 02:49	5
Iron	24		1.0	1.0	mg/L		08/12/13 13:00	08/26/13 02:49	5
Lead	0.027	J	0.038	0.025	mg/L		08/12/13 13:00	08/26/13 02:49	5
Manganese	0.19		0.13	0.050	mg/L		08/12/13 13:00	08/26/13 02:49	5
Nickel	<0.13		0.13	0.050	mg/L		08/12/13 13:00	08/26/13 02:49	5
Selenium	<0.25		0.25	0.050	mg/L		08/12/13 13:00	08/26/13 02:49	5
Silver	<0.13		0.13	0.025	mg/L		08/12/13 13:00	08/26/13 02:49	5
Zinc	2.1		0.50	0.10	mg/L		08/12/13 13:00	08/26/13 02:49	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Client Sample ID: 846D-106-B02

Lab Sample ID: 500-60485-22

Date Collected: 08/05/13 11:35

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:44	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 12:35	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.018	0.0084	mg/Kg	✱	08/09/13 15:00	08/12/13 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.00		0.200	0.200	SU			08/17/13 10:16	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Client Sample ID: 846D-106-B03

Lab Sample ID: 500-60485-23

Date Collected: 08/05/13 11:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048	*	0.0048	0.0021	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1
Xylenes, Total	<0.0096		0.0096	0.00044	mg/Kg	☼	08/05/13 11:30	08/14/13 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	08/05/13 11:30	08/14/13 14:14	1
Dibromofluoromethane	107		75 - 120	08/05/13 11:30	08/14/13 14:14	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/05/13 11:30	08/14/13 14:14	1
Toluene-d8 (Surr)	96		75 - 122	08/05/13 11:30	08/14/13 14:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.065	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Client Sample ID: 846D-106-B03

Lab Sample ID: 500-60485-23

Date Collected: 08/05/13 11:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
4-Chloroaniline	<0.83		0.83	0.13	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Acenaphthylene	<0.041		0.041	0.0095	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Fluorene	<0.041		0.041	0.0094	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Benzo[a]anthracene	<0.041		0.041	0.0086	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Client Sample ID: 846D-106-B03

Lab Sample ID: 500-60485-23

Date Collected: 08/05/13 11:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.0093	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Benzo[b]fluoranthene	<0.041		0.041	0.0080	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Benzo[k]fluoranthene	<0.041		0.041	0.0098	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Benzo[a]pyrene	<0.041		0.041	0.0075	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	08/12/13 07:23	08/18/13 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	44		30 - 110	08/12/13 07:23	08/18/13 17:43	1
Phenol-d5	45		31 - 110	08/12/13 07:23	08/18/13 17:43	1
Nitrobenzene-d5	42		30 - 115	08/12/13 07:23	08/18/13 17:43	1
2-Fluorobiphenyl	43		30 - 119	08/12/13 07:23	08/18/13 17:43	1
2,4,6-Tribromophenol	43		35 - 137	08/12/13 07:23	08/18/13 17:43	1
Terphenyl-d14	61		36 - 134	08/12/13 07:23	08/18/13 17:43	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00085	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
alpha-BHC	<0.0021		0.0021	0.00052	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
alpha-Chlordane	<0.0021		0.0021	0.0010	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
beta-BHC	<0.0021		0.0021	0.00064	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
4,4'-DDD	<0.0021		0.0021	0.00041	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
4,4'-DDE	<0.0021		0.0021	0.00034	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
delta-BHC	<0.0021		0.0021	0.00065	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
Dieldrin	<0.0021		0.0021	0.00028	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
Endosulfan I	<0.0021		0.0021	0.00090	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
Endosulfan II	<0.0021		0.0021	0.00033	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
Endosulfan sulfate	<0.0021		0.0021	0.00037	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
Endrin	<0.0021		0.0021	0.00028	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
Endrin aldehyde	<0.0021		0.0021	0.00034	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
Endrin ketone	<0.0021		0.0021	0.00046	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
gamma-BHC (Lindane)	<0.0021		0.0021	0.00044	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
gamma-Chlordane	<0.0021		0.0021	0.00054	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
Heptachlor	<0.0021		0.0021	0.00086	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
Heptachlor epoxide	<0.0021		0.0021	0.00073	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
Methoxychlor	<0.010		0.010	0.00040	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1
Toxaphene	<0.020		0.020	0.0086	mg/Kg	☼	08/10/13 13:31	08/14/13 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	101		56 - 128	08/10/13 13:31	08/14/13 22:48	1
Tetrachloro-m-xylene	61		45 - 112	08/10/13 13:31	08/14/13 22:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Client Sample ID: 846D-106-B03

Lab Sample ID: 500-60485-23

Date Collected: 08/05/13 11:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Arsenic	11		0.61	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Barium	170		0.61	0.065	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Beryllium	0.78		0.24	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Boron	4.4		3.0	0.13	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Cadmium	0.15	B	0.12	0.015	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Calcium	3000	B	12	3.3	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Chromium	20		0.61	0.070	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Cobalt	11		0.30	0.022	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Copper	20	B	0.61	0.054	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Iron	28000		12	5.0	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Lead	17		0.30	0.090	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Magnesium	3900	B	6.1	1.3	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Manganese	1500	B	6.1	0.33	mg/Kg	☼	08/07/13 10:28	08/25/13 14:53	10
Nickel	24		0.61	0.060	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Potassium	1900		30	1.8	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Selenium	0.54	J	0.61	0.22	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Silver	0.028	J	0.30	0.022	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Sodium	910		61	8.1	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Thallium	0.60	J	0.61	0.26	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Vanadium	25		0.30	0.045	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Zinc	67		1.2	0.25	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1
Aluminum	13000	B	12	1.1	mg/Kg	☼	08/07/13 10:28	08/24/13 18:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/29/13 10:00	09/07/13 19:26	1
Chromium	<0.025		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 19:26	1
Iron	0.88		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 19:26	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 19:26	1
Manganese	0.051		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 19:26	1
Nickel	<0.025		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 19:26	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 03:29	1
Beryllium	0.0063		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 03:29	1
Boron	0.88		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 03:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 03:29	1
Chromium	0.18		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 03:29	1
Cobalt	0.028		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 03:29	1
Iron	170		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 03:29	1
Lead	0.066		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 03:29	1
Manganese	0.64		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 03:29	1
Nickel	0.13		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 03:29	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 03:29	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 03:29	1
Zinc	0.89		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 03:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Client Sample ID: 846D-106-B03

Lab Sample ID: 500-60485-23

Date Collected: 08/05/13 11:30

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/29/13 10:00	09/03/13 19:09	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:50	1
Thallium	0.0032		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:50	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00031		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 12:37	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.020	0.0094	mg/Kg	☼	08/09/13 15:00	08/12/13 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.48		0.200	0.200	SU			08/17/13 10:19	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Client Sample ID: 846D-106-B04

Lab Sample ID: 500-60485-24

Date Collected: 08/05/13 11:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045	*	0.0045	0.0020	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00060	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00060	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Styrene	<0.0045		0.0045	0.00060	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Toluene	<0.0045		0.0045	0.00064	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	08/05/13 11:20	08/14/13 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/05/13 11:20	08/14/13 14:37	1
Dibromofluoromethane	103		75 - 120	08/05/13 11:20	08/14/13 14:37	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/05/13 11:20	08/14/13 14:37	1
Toluene-d8 (Surr)	92		75 - 122	08/05/13 11:20	08/14/13 14:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.065	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Client Sample ID: 846D-106-B04

Lab Sample ID: 500-60485-24

Date Collected: 08/05/13 11:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
2-Methylphenol	<0.21		0.21	0.054	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.045	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
2-Chlorophenol	<0.21		0.21	0.058	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
2,4,6-Trichlorophenol	<0.41		0.41	0.051	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Acenaphthylene	<0.041		0.041	0.0094	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Diethyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.064	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
N-Nitrosodiphenylamine	<0.21		0.21	0.055	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.099	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Anthracene	<0.041		0.041	0.0096	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Carbazole	<0.21		0.21	0.057	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Benzo[a]anthracene	<0.041		0.041	0.0086	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Client Sample ID: 846D-106-B04

Lab Sample ID: 500-60485-24

Date Collected: 08/05/13 11:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.0092	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Benzo[b]fluoranthene	<0.041		0.041	0.0079	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Benzo[k]fluoranthene	<0.041		0.041	0.0097	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Benzo[a]pyrene	<0.041		0.041	0.0074	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1
3 & 4 Methylphenol	<0.21		0.21	0.077	mg/Kg	☼	08/12/13 07:23	08/18/13 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		30 - 110	08/12/13 07:23	08/18/13 18:00	1
Phenol-d5	60		31 - 110	08/12/13 07:23	08/18/13 18:00	1
Nitrobenzene-d5	54		30 - 115	08/12/13 07:23	08/18/13 18:00	1
2-Fluorobiphenyl	62		30 - 119	08/12/13 07:23	08/18/13 18:00	1
2,4,6-Tribromophenol	51		35 - 137	08/12/13 07:23	08/18/13 18:00	1
Terphenyl-d14	83		36 - 134	08/12/13 07:23	08/18/13 18:00	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.010		0.010	0.0042	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
alpha-BHC	<0.010		0.010	0.0026	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
alpha-Chlordane	<0.010		0.010	0.0051	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
beta-BHC	<0.010		0.010	0.0031	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
4,4'-DDD	<0.010		0.010	0.0020	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
4,4'-DDE	<0.010		0.010	0.0017	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
4,4'-DDT	<0.010		0.010	0.0053	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
delta-BHC	<0.010		0.010	0.0032	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
Dieldrin	<0.010		0.010	0.0014	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
Endosulfan I	<0.010		0.010	0.0044	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
Endosulfan II	<0.010		0.010	0.0016	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
Endosulfan sulfate	<0.010		0.010	0.0018	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
Endrin	<0.010		0.010	0.0014	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
Endrin aldehyde	<0.010		0.010	0.0017	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
Endrin ketone	<0.010		0.010	0.0023	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
gamma-BHC (Lindane)	<0.010		0.010	0.0022	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
gamma-Chlordane	<0.010		0.010	0.0027	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
Heptachlor	<0.010		0.010	0.0042	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
Heptachlor epoxide	<0.010		0.010	0.0036	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
Methoxychlor	<0.050		0.050	0.0020	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5
Toxaphene	<0.10		0.10	0.043	mg/Kg	☼	08/10/13 13:31	08/14/13 23:07	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	106		56 - 128	08/10/13 13:31	08/14/13 23:07	5
Tetrachloro-m-xylene	77		45 - 112	08/10/13 13:31	08/14/13 23:07	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Client Sample ID: 846D-106-B04

Lab Sample ID: 500-60485-24

Date Collected: 08/05/13 11:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Arsenic	13		0.62	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Barium	83		0.62	0.066	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Beryllium	0.96		0.25	0.022	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Boron	8.4		3.1	0.13	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Cadmium	0.52	B	0.12	0.016	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Calcium	45000	B	12	3.4	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Chromium	15		0.62	0.072	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Cobalt	11		0.31	0.022	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Copper	26	B	0.62	0.055	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Iron	23000		12	5.1	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Lead	19		0.31	0.092	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Magnesium	23000	B	6.2	1.3	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Manganese	850	B	6.2	0.34	mg/Kg	☼	08/07/13 10:28	08/25/13 14:59	10
Nickel	29		0.62	0.061	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Potassium	1900		31	1.9	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Selenium	<0.62		0.62	0.22	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Sodium	710		62	8.3	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Thallium	0.67		0.62	0.26	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Vanadium	19		0.31	0.046	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Zinc	55		1.2	0.25	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1
Aluminum	12000	B	12	1.1	mg/Kg	☼	08/07/13 10:28	08/24/13 19:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 19:49	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 19:49	1
Manganese	0.085		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 19:49	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 03:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 03:35	1
Boron	0.99		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 03:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 03:35	1
Chromium	0.067		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 03:35	1
Cobalt	0.018	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 03:35	1
Iron	74		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 03:35	1
Lead	0.041		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 03:35	1
Manganese	0.33		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 03:35	1
Nickel	0.063		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 03:35	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 03:35	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 03:35	1
Zinc	0.65		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 03:35	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Client Sample ID: 846D-106-B04

Lab Sample ID: 500-60485-24

Date Collected: 08/05/13 11:20

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 12:39	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0091	mg/Kg	☼	08/09/13 15:00	08/12/13 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.87		0.200	0.200	SU			08/17/13 10:23	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-3

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Information Project Name: US6/IL7 Will & Cook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler:		Administrative COC No.: _____ of _____ Lab Job No.: 500-60485 Sample Temp: 38.4/35.3/39 Matrix Key:										
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.				ANALYSES												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
1	846D-103-B01	8/5	12:45	S	X	X					X	X	X	X		
2	846D-103-B02	8/5	12:35	S	X	X					X	X	X	X		
<div style="position: absolute; top: 50px; left: 50px; font-size: 2em; opacity: 0.5;"> </div>																
Relinquished by:					Date/Time	Received by:					Date/Time	Received by:				
					8/5/13 4:00						8/5/13 1655					
Relinquished by:					Date/Time	Received by:					Date/Time	Received by:				
					8/5/13 1655						8/5/13 1655					
Relinquished by:					Date/Time	Received by:					Date/Time	Received by:				



CHAIN OF CUSTODY RECORD

Client Contact
 Andrews Engineering, Inc.
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 Lab: Test America - Chicago
 Address: 2417 Bond Street
 University Park, IL 60484
 Phone: 708-534-5200
 Contact: Dick Wright
 email: richard.wright@testamericainc.com

Project Name: US6/IL7 Wild + Cook Co
 Project No.: IDOT 2013 - 023
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Other: ASZ

COC No.: 2 of 2
 Lab Job No.: 500-60485
 Sample Temp: 38.4/35.3/39
 Matrix Key: 38.4/35.3/39

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
15	846D-105-B06-a	8/5/13	3:40	S	X	X			X		X	X	X	X		7.5-15
16	846D-105-B07-1		2:25	S	X	X			X		X	X	X	X		0-7.5
17	846D-105-B07-1 DUP		2:40	S	X	X			X		X	X	X	X		0-7.5
18	846D-105-B07-a		2:30	S	X	X			X		X	X	X	X		7.5-15
19	846D-105-B08-1		1:20	S	X	X			X		X	X	X	X		0-7.5
20	846D-105-B08-a		1:30	S	X	X			X		X	X	X	X		7.5-15

ANALYSES

Relinquished by: John A. Wright (NET) Date/Time: 8/5/13 4:15 Received by: [Signature] Date/Time: 8/5/13 1655

Relinquished by: [Signature] Date/Time: 8/5/13 1655 Received by: [Signature] Date/Time: 8/5/13 1655

Relinquished by: [Signature] Date/Time: 8/5/13 1655 Received by: [Signature] Date/Time: 8/5/13 1655



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7 Willu x Cook Co</u> Project No.: <u>IDOT 2013 - 023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____	COC No.: _____ of _____ Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/39</u> Matrix Key: _____																																																																																					
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES																																																																																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> </tr> </thead> <tbody> <tr> <td>21</td> <td>846 D-106-B01</td> <td>8/5</td> <td>12:25</td> <td>S</td> </tr> <tr> <td>22</td> <td>846 D-106-B02</td> <td></td> <td>11:35</td> <td>S</td> </tr> <tr> <td>23</td> <td>846 D-106-B03</td> <td></td> <td>11:30</td> <td>S</td> </tr> <tr> <td>24</td> <td>846 D-106-B04</td> <td></td> <td>11:20</td> <td>S</td> </tr> </tbody> </table>	Lab ID	Sample ID	Sample Date	Sample Time	Matrix	21	846 D-106-B01	8/5	12:25	S	22	846 D-106-B02		11:35	S	23	846 D-106-B03		11:30	S	24	846 D-106-B04		11:20	S	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>VOCs</th> <th>SVOCs</th> <th>BETX & MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> </tbody> </table>			VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	X	X			X		X	X	X	X			X	X			X		X	X	X	X			X	X			X		X	X	X	X			X	X			X		X	X	X	X		
Lab ID	Sample ID	Sample Date	Sample Time	Matrix																																																																																				
21	846 D-106-B01	8/5	12:25	S																																																																																				
22	846 D-106-B02		11:35	S																																																																																				
23	846 D-106-B03		11:30	S																																																																																				
24	846 D-106-B04		11:20	S																																																																																				
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments																																																																													
X	X			X		X	X	X	X																																																																															
X	X			X		X	X	X	X																																																																															
X	X			X		X	X	X	X																																																																															
X	X			X		X	X	X	X																																																																															
Relinquished by: _____ Date/Time: <u>8/5/13 4:00</u>		Received by: _____ Date/Time: <u>8/5/13/1655</u>																																																																																						
Relinquished by: _____ Date/Time: _____		Received by: <u>Administrators</u> Date/Time: <u>8/5/13 1655</u>																																																																																						
Relinquished by: _____ Date/Time: _____		Received by: _____ Date/Time: _____																																																																																						



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7 Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____	COC No.: _____ of _____ Lab Job No.: _____ Sample Temp: <u>500-60485</u> Matrix Key: <u>3846353739</u> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
26	846D-108-B01	8/5	11:05	S	X	X					X	X	X	X		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> Relinquished by: Relinquished by: Relinquished by: _____ </div> <div style="width: 30%;"> Date/Time: <u>8/5/13 7:00</u> Date/Time: <u>8/5/13 1055</u> Date/Time: _____ </div> <div style="width: 30%;"> Received by: Received by: Received by: _____ </div> </div>																



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US6/IL7 Will & Cook Co Project No.: IDOT 2013 - 023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: _____ of _____ Lab Job No.: 500-60485 Sample Temp: 38.4/36.3/39 Matrix Key:
---	---	---	---

Special Instructions:
See Table 2 for complete parameter lists and minimum reporting limits.
* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
21	846D-106-B01	8/5	12:25	S	X	X			X		X	X	X	X		
22	846D-106-B02		11:35	S	X	X			X		X	X	X	X		
23	846D-106-B03		11:30	S	X	X			X		X	X	X	X		
24	846D-106-B04		11:27	S	X	X			X		X	X	X	X		

Relinquished by:	Date/Time: 8/5/13 7:00	Received by:	Date/Time: 8/5/13/16001
Relinquished by:	Date/Time: 8/5/13 1655	Received by:	Date/Time: 8/5/13 1655
Relinquished by:	Date/Time:	Received by:	Date/Time:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15915 Crystal Creek Drive

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60009 Longitude: -87.91621

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60009 Longitude: -87.91621

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 846D-109-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-109. SEE FIGURE 19 AND TABLE 3cn OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60485-6

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

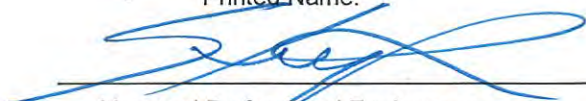
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

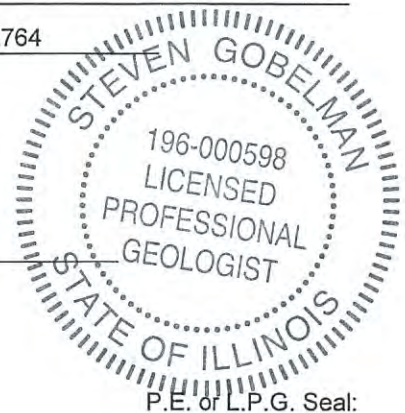
Printed Name:



 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

1/19/14

 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-109
15915 Crystal Creek Drive

Sample ID	846D-109-B01	846D-109-B01 DUP	846D-109-B02												
Sample Depth (ft)	0-6	0-6	0-6												
Sample Date	8/5/2013	8/5/2013	8/5/2013												
PID	0	0	0												
Sample pH	8.48	8.82	8.7												
Matrix	Soil	Soil	Soil												
Semivolatile Organic Compounds (mg/kg)															
Benzo(a)pyrene	ND	ND	ND	0.15	1.2	0.09	0.09	0.09	0.98	1.3	2.1	NA			

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-60485-6

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/9/2013 4:53:07 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-6

Client Sample ID: 846D-109-B01

Lab Sample ID: 500-60485-27

Date Collected: 08/05/13 10:50

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.028		0.0051	0.0022	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	08/05/13 10:50	08/09/13 23:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	08/05/13 10:50	08/09/13 23:59	1
Dibromofluoromethane	107		75 - 120	08/05/13 10:50	08/09/13 23:59	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/05/13 10:50	08/09/13 23:59	1
Toluene-d8 (Surr)	92		75 - 122	08/05/13 10:50	08/09/13 23:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-6

Client Sample ID: 846D-109-B01

Lab Sample ID: 500-60485-27

Date Collected: 08/05/13 10:50

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-6

Client Sample ID: 846D-109-B01

Lab Sample ID: 500-60485-27

Date Collected: 08/05/13 10:50

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/12/13 07:23	08/18/13 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	61		30 - 110	08/12/13 07:23	08/18/13 18:52	1
Phenol-d5	67		31 - 110	08/12/13 07:23	08/18/13 18:52	1
Nitrobenzene-d5	56		30 - 115	08/12/13 07:23	08/18/13 18:52	1
2-Fluorobiphenyl	56		30 - 119	08/12/13 07:23	08/18/13 18:52	1
2,4,6-Tribromophenol	57		35 - 137	08/12/13 07:23	08/18/13 18:52	1
Terphenyl-d14	88		36 - 134	08/12/13 07:23	08/18/13 18:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Arsenic	8.9		0.58	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Barium	58		0.58	0.062	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Beryllium	0.72		0.23	0.020	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Boron	7.8		2.9	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Cadmium	0.35	B	0.12	0.015	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Calcium	17000	B	12	3.1	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Chromium	19		0.58	0.067	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Cobalt	10		0.29	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Copper	26	B	0.58	0.051	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Iron	23000		12	4.8	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Lead	14		0.29	0.086	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Magnesium	14000	B	5.8	1.2	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Manganese	440	B	0.58	0.031	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Nickel	32		0.58	0.057	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Potassium	2200		29	1.7	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Sodium	1100		58	7.8	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Thallium	0.77		0.58	0.24	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Vanadium	20		0.29	0.043	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Zinc	57		1.2	0.23	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1
Aluminum	12000	B	12	1.1	mg/Kg	☼	08/07/13 10:28	08/24/13 19:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/29/13 10:00	09/07/13 20:41	1
Chromium	<0.025		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 20:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-6

Client Sample ID: 846D-109-B01

Lab Sample ID: 500-60485-27

Date Collected: 08/05/13 10:50

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.33		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 20:41	1
Lead	0.0083		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 20:41	1
Manganese	7.3		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 20:41	1
Nickel	0.030		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 20:41	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 03:54	1
Beryllium	0.0092		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 03:54	1
Boron	0.88		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 03:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 03:54	1
Chromium	0.19		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 03:54	1
Cobalt	0.067		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 03:54	1
Iron	240		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 03:54	1
Lead	0.13		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 03:54	1
Manganese	2.5		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 03:54	1
Nickel	0.27		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 03:54	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 03:54	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 03:54	1
Zinc	0.99		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 03:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/29/13 10:00	09/04/13 17:27	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:55	1
Thallium	0.0047		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:55	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00052		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 12:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0085	mg/Kg	☼	08/09/13 15:00	08/12/13 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.48		0.200	0.200	SU			08/17/13 10:33	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-6

Client Sample ID: 846D-109-B01 DUP

Lab Sample ID: 500-60485-28

Date Collected: 08/05/13 10:55

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.0046	0.0020	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	08/05/13 10:55	08/10/13 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	08/05/13 10:55	08/10/13 00:21	1
Dibromofluoromethane	105		75 - 120	08/05/13 10:55	08/10/13 00:21	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/05/13 10:55	08/10/13 00:21	1
Toluene-d8 (Surr)	94		75 - 122	08/05/13 10:55	08/10/13 00:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-6

Client Sample ID: 846D-109-B01 DUP

Lab Sample ID: 500-60485-28

Date Collected: 08/05/13 10:55

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-6

Client Sample ID: 846D-109-B01 DUP

Lab Sample ID: 500-60485-28

Date Collected: 08/05/13 10:55

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/12/13 07:23	08/18/13 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		30 - 110				08/12/13 07:23	08/18/13 19:10	1
Phenol-d5	58		31 - 110				08/12/13 07:23	08/18/13 19:10	1
Nitrobenzene-d5	42		30 - 115				08/12/13 07:23	08/18/13 19:10	1
2-Fluorobiphenyl	47		30 - 119				08/12/13 07:23	08/18/13 19:10	1
2,4,6-Tribromophenol	46		35 - 137				08/12/13 07:23	08/18/13 19:10	1
Terphenyl-d14	70		36 - 134				08/12/13 07:23	08/18/13 19:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Arsenic	11		0.58	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Barium	34		0.58	0.062	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Beryllium	0.51		0.23	0.020	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Boron	8.6		2.9	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Cadmium	0.37	B	0.12	0.015	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Calcium	35000	B	12	3.1	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Chromium	14		0.58	0.067	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Cobalt	11		0.29	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Copper	28	B	0.58	0.051	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Iron	20000		12	4.8	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Lead	18		0.29	0.086	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Magnesium	22000	B	5.8	1.2	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Manganese	560	B	0.58	0.031	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Nickel	27		0.58	0.057	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Potassium	2100		29	1.7	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Sodium	870		58	7.8	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Thallium	0.53	J	0.58	0.24	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Vanadium	14		0.29	0.043	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Zinc	61		1.2	0.23	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1
Aluminum	7900	B	12	1.1	mg/Kg	☼	08/07/13 10:28	08/24/13 19:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.27		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 20:47	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 20:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-6

Client Sample ID: 846D-109-B01 DUP

Lab Sample ID: 500-60485-28

Date Collected: 08/05/13 10:55

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.54		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 20:47	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 04:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 04:00	1
Boron	0.85		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 04:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 04:00	1
Chromium	0.012	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:00	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:00	1
Iron	10		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 04:00	1
Lead	0.015		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 04:00	1
Manganese	0.14		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:00	1
Nickel	0.013	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:00	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 04:00	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:00	1
Zinc	0.45		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 04:00	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:56	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 12:47	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.0088	mg/Kg	☼	08/09/13 15:00	08/12/13 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.82		0.200	0.200	SU			08/17/13 10:37	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-6

Client Sample ID: 846D-109-B02

Lab Sample ID: 500-60485-29

Date Collected: 08/05/13 10:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.013		0.0050	0.0022	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Vinyl acetate	<0.0050		0.0050	0.00078	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	08/05/13 10:45	08/10/13 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	08/05/13 10:45	08/10/13 00:44	1
Dibromofluoromethane	104		75 - 120	08/05/13 10:45	08/10/13 00:44	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/05/13 10:45	08/10/13 00:44	1
Toluene-d8 (Surr)	92		75 - 122	08/05/13 10:45	08/10/13 00:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-6

Client Sample ID: 846D-109-B02

Lab Sample ID: 500-60485-29

Date Collected: 08/05/13 10:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Naphthalene	<0.039		0.039	0.0077	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Phenanthrene	0.090		0.039	0.017	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Anthracene	0.022 J		0.039	0.0093	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Fluoranthene	0.19		0.039	0.016	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Pyrene	0.17		0.039	0.014	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Benzo[a]anthracene	0.11		0.039	0.0083	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-6

Client Sample ID: 846D-109-B02

Lab Sample ID: 500-60485-29

Date Collected: 08/05/13 10:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.16		0.039	0.0090	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Benzo[b]fluoranthene	0.14		0.039	0.0077	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Benzo[k]fluoranthene	0.082		0.039	0.0095	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Benzo[a]pyrene	0.15		0.039	0.0072	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Indeno[1,2,3-cd]pyrene	0.083		0.039	0.013	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Dibenz(a,h)anthracene	0.047		0.039	0.011	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
Benzo[g,h,i]perylene	0.11		0.039	0.013	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	08/12/13 07:23	08/19/13 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		30 - 110	08/12/13 07:23	08/18/13 19:27	5
2-Fluorophenol	61		30 - 110	08/12/13 07:23	08/19/13 16:00	1
Phenol-d5	72		31 - 110	08/12/13 07:23	08/18/13 19:27	5
Phenol-d5	65		31 - 110	08/12/13 07:23	08/19/13 16:00	1
Nitrobenzene-d5	62		30 - 115	08/12/13 07:23	08/18/13 19:27	5
Nitrobenzene-d5	55		30 - 115	08/12/13 07:23	08/19/13 16:00	1
2-Fluorobiphenyl	73		30 - 119	08/12/13 07:23	08/18/13 19:27	5
2-Fluorobiphenyl	65		30 - 119	08/12/13 07:23	08/19/13 16:00	1
2,4,6-Tribromophenol	68		35 - 137	08/12/13 07:23	08/18/13 19:27	5
2,4,6-Tribromophenol	70		35 - 137	08/12/13 07:23	08/19/13 16:00	1
Terphenyl-d14	85		36 - 134	08/12/13 07:23	08/18/13 19:27	5
Terphenyl-d14	75		36 - 134	08/12/13 07:23	08/19/13 16:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Arsenic	8.8		0.60	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Barium	53		0.60	0.064	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Beryllium	0.67		0.24	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Boron	7.3		3.0	0.13	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Cadmium	0.33	B	0.12	0.015	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Calcium	22000	B	12	3.3	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Chromium	17		0.60	0.070	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Cobalt	10		0.30	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Copper	24	B	0.60	0.053	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Iron	21000		12	4.9	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Lead	27		0.30	0.089	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Magnesium	15000	B	6.0	1.2	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Manganese	360	B	0.60	0.033	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Nickel	27		0.60	0.059	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Potassium	1900		30	1.8	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Selenium	0.32	J	0.60	0.21	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Sodium	1200		60	8.0	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Thallium	0.62		0.60	0.25	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Vanadium	19		0.30	0.044	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1
Zinc	61		1.2	0.24	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-6

Client Sample ID: 846D-109-B02

Lab Sample ID: 500-60485-29

Date Collected: 08/05/13 10:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.0

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	B	12	1.1	mg/Kg	☼	08/07/13 10:28	08/24/13 19:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/30/13 10:15	09/03/13 17:02	1
Chromium	<0.025		0.025	0.010	mg/L		08/30/13 10:15	09/03/13 17:02	1
Iron	<0.20		0.20	0.20	mg/L		08/30/13 10:15	09/03/13 17:02	1
Lead	0.0080		0.0075	0.0050	mg/L		08/30/13 10:15	09/03/13 17:02	1
Manganese	3.8		0.025	0.010	mg/L		08/30/13 10:15	09/03/13 17:02	1
Nickel	0.031	B	0.025	0.010	mg/L		08/30/13 10:15	09/03/13 17:02	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 04:06	1
Beryllium	0.0061		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 04:06	1
Boron	0.96		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 04:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 04:06	1
Chromium	0.12		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:06	1
Cobalt	0.036		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:06	1
Iron	140		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 04:06	1
Lead	0.15		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 04:06	1
Manganese	0.70		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:06	1
Nickel	0.15		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:06	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 04:06	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:06	1
Zinc	0.86		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 04:06	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/30/13 10:15	09/03/13 16:37	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:57	1
Thallium	0.0031		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:57	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00031		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 12:53	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0085	mg/Kg	☼	08/09/13 15:00	08/12/13 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.70		0.200	0.200	SU			08/17/13 10:40	1

TestAmerica Chicago

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-6

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact
 Andrews Engineering, Inc.
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 Lab: Test America - Chicago
 Address: 2417 Bond Street
 University Park, IL 60484
 Phone: 708-534-5200
 Contact: Dick Wright
 email: richard.wright@testamericainc.com

Project Name: US6/IL7 Will & Cook Co
Project No.: IDOT 2013-023
TAT: 15 BD 10 BD 5 BD 2 BD Other

COC No.: _____ of _____
Lab Job No.: 500-60485
Sample Temp: 38.4/35.3/39
Matrix Key:

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Matrix Key:
 W: Water
 S: Soil
 SL: Sludge
 S: Sediment
 L: Leachate
 DW: Drinking Water
 OL: Oil
 O: Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments						
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization					
1	846D-103-B01	8/5	12:45	S	X	X					X	X	X	X							
2	846D-103-B02	8/5	12:35	S	X	X					X	X	X	X							

Relinquished by: [Signature] Date/Time: 8/5/13 4:00
Relinquished by: [Signature] Date/Time: 8/5/13 1655
Relinquished by: [Signature] Date/Time: 8/5/13 1655

Received by: [Signature] Date/Time: 8/5/13 1650
Received by: [Signature] Date/Time: 8/6/13 1655
Received by: [Signature] Date/Time: 8/6/13 1655



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>US6/IL7 Willard + Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: _____ Sampler: _____	Administrative COC No.: <u>2</u> of <u>2</u> Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/39</u> Matrix Key: _____														
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																	
ANALYSES																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments	
15	846D-105-B06-2	8/5/13	3:40	S	X	X			X		X	X	X	X		7.5-15	
16	846D-105-B07-1		2:25	S	X	X			X		X	X	X	X		0-7.5	
17	846D-105-B07-1 DUP		2:40	S	X	X			X		X	X	X	X		0-7.5	
18	846D-105-B07-2		2:30	S	X	X			X		X	X	X	X		7.5-15	
19	846D-105-B08-1		1:20	S	X	X			X		X	X	X	X		0-7.5	
20	846D-105-B08-2		1:30	S	X	X			X		X	X	X	X		7.5-15	
					Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	
Relinquished by: <u>John A. Wright (NET)</u>					8/5/13	4:15											8-5-13/16 08
Relinquished by: <u>[Signature]</u>					8/5/13	1655											8/5/13 1655
Relinquished by: <u>[Signature]</u>					Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7 Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____	COC No.: _____ of _____ Lab Job No.: _____ Sample Temp: <u>500-60485</u> Matrix Key: <u>3846353739</u> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
26	846D-108-B01	8/5	11:05	S	X	X					X	X	X	X		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> Relinquished by: Relinquished by: Relinquished by: _____ </div> <div style="width: 30%;"> Date/Time: <u>8/5/13 7:00</u> Date/Time: <u>8/5/13 1055</u> Date/Time: _____ </div> <div style="width: 30%;"> Received by: Received by: Received by: _____ </div> <div style="width: 30%;"> Date/Time: <u>8-5-13/1000</u> Date/Time: <u>8/5/13 1055</u> Date/Time: _____ </div> </div>																



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12141 to 12147 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60012 Longitude: -87.91503
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)
Latitude: 41.60012 Longitude: -87.91503

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-110-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-110. SEE FIGURES 19 & 20, AND TABLE 3co OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60485-7

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist


I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment
Street Address: 2300 South Dirksen Parkway
City: Springfield State: IL Zip Code: 62764
Phone: 217-785-4246

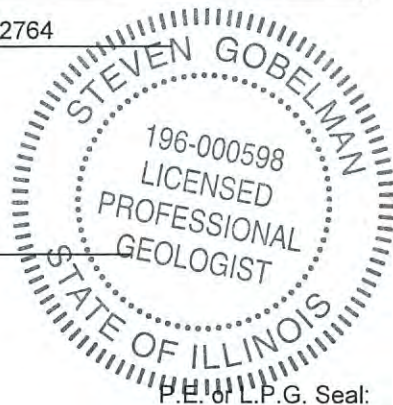
Steven Gobelman

Printed Name:


Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/15/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-110

Commercial Building

Sample ID	846D-110-B01	846D-110-B02					
Sample Depth (ft)	0-6	0-6					
Sample Date	8/5/2013	8/5/2013					
PID	0	0					
Sample pH	7.83	7.85					
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							
			¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC
							⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-60485-7
Client Project/Site: IDOT - Gougar - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/9/2013 4:53:39 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-7

Client Sample ID: 846D-110-B01

Lab Sample ID: 500-60485-30

Date Collected: 08/05/13 10:25

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	08/05/13 10:25	08/10/13 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/05/13 10:25	08/10/13 01:07	1
Dibromofluoromethane	107		75 - 120	08/05/13 10:25	08/10/13 01:07	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	08/05/13 10:25	08/10/13 01:07	1
Toluene-d8 (Surr)	96		75 - 122	08/05/13 10:25	08/10/13 01:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-7

Client Sample ID: 846D-110-B01

Lab Sample ID: 500-60485-30

Date Collected: 08/05/13 10:25

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
2-Nitrophenol	<0.40		0.40	0.062	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Acenaphthylene	<0.040		0.040	0.0091	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Fluorene	<0.040		0.040	0.0090	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.096	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Phenanthrene	0.045		0.040	0.017	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Anthracene	<0.040		0.040	0.0093	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Fluoranthene	0.11		0.040	0.016	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Pyrene	0.12		0.040	0.014	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Benzo[a]anthracene	0.058		0.040	0.0083	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-7

Client Sample ID: 846D-110-B01

Lab Sample ID: 500-60485-30

Date Collected: 08/05/13 10:25

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.092		0.040	0.0090	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Bis(2-ethylhexyl) phthalate	0.074	J	0.20	0.053	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Benzo[b]fluoranthene	0.12		0.040	0.0077	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Benzo[k]fluoranthene	0.054		0.040	0.0095	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Benzo[a]pyrene	0.075		0.040	0.0072	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Indeno[1,2,3-cd]pyrene	0.059		0.040	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Dibenz(a,h)anthracene	0.023	J	0.040	0.011	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
Benzo[g,h,i]perylene	0.071		0.040	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	08/12/13 07:23	08/18/13 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		30 - 110	08/12/13 07:23	08/18/13 19:44	1
Phenol-d5	52		31 - 110	08/12/13 07:23	08/18/13 19:44	1
Nitrobenzene-d5	43		30 - 115	08/12/13 07:23	08/18/13 19:44	1
2-Fluorobiphenyl	50		30 - 119	08/12/13 07:23	08/18/13 19:44	1
2,4,6-Tribromophenol	50		35 - 137	08/12/13 07:23	08/18/13 19:44	1
Terphenyl-d14	71		36 - 134	08/12/13 07:23	08/18/13 19:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Arsenic	9.7		0.61	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Barium	69		0.61	0.065	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Beryllium	0.70		0.24	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Boron	5.7		3.0	0.13	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Cadmium	0.40	B	0.12	0.015	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Calcium	15000	B	12	3.3	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Chromium	16		0.61	0.070	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Cobalt	11		0.30	0.022	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Copper	24	B	0.61	0.054	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Iron	19000		12	5.0	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Lead	30		0.30	0.090	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Magnesium	10000	B	6.1	1.2	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Manganese	600	B	0.61	0.033	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Nickel	21		0.61	0.059	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Potassium	1600		30	1.8	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Selenium	0.51	J	0.61	0.21	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Sodium	830		61	8.1	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Thallium	0.26	J	0.61	0.26	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Vanadium	23		0.30	0.045	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Zinc	65		1.2	0.24	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1
Aluminum	10000	B	12	1.1	mg/Kg	☼	08/07/13 10:28	08/24/13 19:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/29/13 10:00	09/07/13 20:53	1
Iron	<0.20		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 20:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-7

Client Sample ID: 846D-110-B01

Lab Sample ID: 500-60485-30

Date Collected: 08/05/13 10:25

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0081		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 20:53	1
Manganese	8.2		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 20:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.93		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 04:12	1
Beryllium	0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 04:12	1
Boron	0.86		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 04:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 04:12	1
Chromium	0.075		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:12	1
Cobalt	0.027		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:12	1
Iron	73		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 04:12	1
Lead	0.084		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 04:12	1
Manganese	0.56		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:12	1
Nickel	0.071		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:12	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 04:12	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:12	1
Zinc	0.60		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 04:12	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:58	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 12:55	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0086	mg/Kg	☼	08/09/13 15:00	08/12/13 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.83		0.200	0.200	SU			08/17/13 10:44	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-7

Client Sample ID: 846D-110-B02

Lab Sample ID: 500-60485-31

Date Collected: 08/05/13 10:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 81.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.020		0.0046	0.0020	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	08/05/13 10:20	08/10/13 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	08/05/13 10:20	08/10/13 01:30	1
Dibromofluoromethane	107		75 - 120	08/05/13 10:20	08/10/13 01:30	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/05/13 10:20	08/10/13 01:30	1
Toluene-d8 (Surr)	94		75 - 122	08/05/13 10:20	08/10/13 01:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-7

Client Sample ID: 846D-110-B02

Lab Sample ID: 500-60485-31

Date Collected: 08/05/13 10:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 81.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Hexachlorobenzene	<0.081		0.081	0.0080	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Phenanthrene	0.035	J	0.040	0.017	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Anthracene	0.020	J	0.040	0.0095	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Fluoranthene	0.029	J	0.040	0.017	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Pyrene	0.036	J	0.040	0.015	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Benzo[a]anthracene	0.023	J	0.040	0.0085	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-7

Client Sample ID: 846D-110-B02

Lab Sample ID: 500-60485-31

Date Collected: 08/05/13 10:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 81.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.027	J	0.040	0.0091	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Benzo[b]fluoranthene	0.025	J	0.040	0.0078	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Benzo[k]fluoranthene	0.015	J	0.040	0.0096	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Benzo[a]pyrene	0.037	J	0.040	0.0074	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Indeno[1,2,3-cd]pyrene	0.018	J	0.040	0.014	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
Benzo[g,h,i]perylene	0.027	J	0.040	0.014	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	08/12/13 07:23	08/19/13 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	40		30 - 110	08/12/13 07:23	08/19/13 16:18	1
Phenol-d5	40		31 - 110	08/12/13 07:23	08/19/13 16:18	1
Nitrobenzene-d5	36		30 - 115	08/12/13 07:23	08/19/13 16:18	1
2-Fluorobiphenyl	37		30 - 119	08/12/13 07:23	08/19/13 16:18	1
2,4,6-Tribromophenol	53		35 - 137	08/12/13 07:23	08/19/13 16:18	1
Terphenyl-d14	62		36 - 134	08/12/13 07:23	08/19/13 16:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Arsenic	9.9		0.61	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Barium	41		0.61	0.065	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Beryllium	0.61		0.24	0.022	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Boron	3.8		3.1	0.13	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Cadmium	0.39	B	0.12	0.016	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Calcium	22000	B	12	3.3	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Chromium	19		0.61	0.071	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Cobalt	11		0.31	0.022	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Copper	24	B	0.61	0.054	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Iron	23000		12	5.0	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Lead	32		0.31	0.091	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Magnesium	16000	B	6.1	1.3	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Manganese	420	B	0.61	0.033	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Nickel	27		0.61	0.060	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Potassium	1400		31	1.8	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Selenium	<0.61		0.61	0.22	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Sodium	410		61	8.2	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Thallium	0.27	J	0.61	0.26	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Vanadium	18		0.31	0.045	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Zinc	59		1.2	0.25	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1
Aluminum	11000	B	12	1.1	mg/Kg	☼	08/07/13 10:28	08/24/13 20:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/29/13 10:00	09/07/13 20:59	1
Iron	0.66		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 20:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-7

Client Sample ID: 846D-110-B02

Lab Sample ID: 500-60485-31

Date Collected: 08/05/13 10:20

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.017		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 20:59	1
Manganese	8.4		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 20:59	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.81		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 04:33	1
Beryllium	0.0047		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 04:33	1
Boron	0.87		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 04:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 04:33	1
Chromium	0.072		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:33	1
Cobalt	0.038		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:33	1
Iron	81		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 04:33	1
Lead	0.077		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 04:33	1
Manganese	1.8		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:33	1
Nickel	0.090		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:33	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 04:33	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:33	1
Zinc	0.56		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 04:33	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:04	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 12:57	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.020	0.0093	mg/Kg	☼	08/09/13 15:00	08/12/13 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.85		0.200	0.200	SU			08/17/13 10:47	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-7

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Information Project Name: US6/IL7 Will & Cook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: _____ of _____ Lab Job No.: 500-60485 Sample Temp: 38.4/35.3/39 Matrix Key:										
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.				ANALYSES												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
1	846D-103-B01	8/5	12:45	S	X	X					X	X	X	X		
2	846D-103-B02	8/5	12:35	S	X	X					X	X	X	X		
Relinquished by: Date/Time: 8/5/13 4:00 Relinquished by: Date/Time: 8/5/13 1655 Relinquished by: Date/Time: 8/5/13 1655																



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7Wilson Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: _____ Sampler: _____	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/37.3/9</u> Matrix Key: _____ W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other														
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES															
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments	
53	846D-119-B01	8/5/13	9:30	S	X	X			X		X	X	X	X		0-6'	
54	846D-119-B02	8/5/13	9:50	S	X	X			X		X	X	X	X		0-6'	
55	846D-119-B03	8/5/13	10:10	S	X	X			X		X	X	X	X		0-6'	
					Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	
Relinquished by: <u>Kim Adams (AGI)</u>					8/5/13	4:15											8-5-13/1615
Relinquished by: <u>[Signature]</u>					8/5/13	1655											8/5/13/1655
Relinquished by: <u>[Signature]</u>					Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12108 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60037 Longitude: -87.91405

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Additional BOL: 1978075056

IEPA Site Number(s), if assigned: BOL: 1978075023 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60037 Longitude: -87.91405

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-111-B01 THROUGH -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-111. SEE FIGURE 20 AND TABLE 3cp OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60485-8

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/15/14

Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-111
7-Eleven

Sample ID	846D-111-B01	846D-111-B02	846D-111-B03						
Sample Depth (ft)	0-4	0-4	0-4						
Sample Date	8/5/2013	8/5/2013	8/5/2013						
PID	0	0	0						
Sample pH	7.92	8.29	8.22						
Matrix	Soil	Soil	Soil						
No Contaminants of Concern Noted.									
				¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-60485-8

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/9/2013 4:54:59 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-8

Client Sample ID: 846D-111-B01

Lab Sample ID: 500-60485-32

Date Collected: 08/05/13 12:55

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0055		0.0055	0.0024	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Benzene	<0.0055		0.0055	0.00075	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Bromodichloromethane	<0.0055		0.0055	0.00094	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Bromoform	<0.0055		0.0055	0.0013	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Bromomethane	<0.0055		0.0055	0.0017	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Carbon disulfide	<0.0055		0.0055	0.00082	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Carbon tetrachloride	<0.0055		0.0055	0.0010	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Chlorobenzene	<0.0055		0.0055	0.00055	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Chloroethane	<0.0055		0.0055	0.0015	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Chloroform	<0.0055		0.0055	0.00063	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Chloromethane	<0.0055		0.0055	0.0011	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.00077	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.00072	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Dibromochloromethane	<0.0055		0.0055	0.00095	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
1,1-Dichloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
1,1-Dichloroethene	<0.0055		0.0055	0.00088	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
1,2-Dichloropropane	<0.0055		0.0055	0.00083	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.00072	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Ethylbenzene	<0.0055		0.0055	0.0011	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
2-Hexanone	<0.0055		0.0055	0.0016	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Methylene Chloride	<0.0055		0.0055	0.0015	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0014	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Methyl tert-butyl ether	<0.0055		0.0055	0.00090	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Styrene	<0.0055		0.0055	0.00072	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
1,1,1,2-Tetrachloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Tetrachloroethene	<0.0055		0.0055	0.00084	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Toluene	<0.0055		0.0055	0.00077	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.00075	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.00098	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.00075	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Trichloroethene	<0.0055		0.0055	0.00090	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Vinyl acetate	<0.0055		0.0055	0.00086	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Vinyl chloride	<0.0055		0.0055	0.0011	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1
Xylenes, Total	<0.011		0.011	0.00050	mg/Kg	☼	08/05/13 12:55	08/10/13 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/05/13 12:55	08/10/13 01:53	1
Dibromofluoromethane	105		75 - 120	08/05/13 12:55	08/10/13 01:53	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/05/13 12:55	08/10/13 01:53	1
Toluene-d8 (Surr)	94		75 - 122	08/05/13 12:55	08/10/13 01:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-8

Client Sample ID: 846D-111-B01

Lab Sample ID: 500-60485-32

Date Collected: 08/05/13 12:55

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Fluoranthene	0.027	J	0.038	0.016	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Pyrene	0.031	J	0.038	0.014	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Benzo[a]anthracene	0.025	J	0.038	0.0080	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-8

Client Sample ID: 846D-111-B01

Lab Sample ID: 500-60485-32

Date Collected: 08/05/13 12:55

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.032	J	0.038	0.0086	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Benzo[b]fluoranthene	0.037	J	0.038	0.0074	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Benzo[k]fluoranthene	0.019	J	0.038	0.0091	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Benzo[a]pyrene	0.043		0.038	0.0070	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Indeno[1,2,3-cd]pyrene	0.025	J	0.038	0.013	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Benzo[g,h,i]perylene	0.034	J	0.038	0.013	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/12/13 07:23	08/19/13 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		30 - 110				08/12/13 07:23	08/19/13 16:35	1
Phenol-d5	60		31 - 110				08/12/13 07:23	08/19/13 16:35	1
Nitrobenzene-d5	59		30 - 115				08/12/13 07:23	08/19/13 16:35	1
2-Fluorobiphenyl	64		30 - 119				08/12/13 07:23	08/19/13 16:35	1
2,4,6-Tribromophenol	64		35 - 137				08/12/13 07:23	08/19/13 16:35	1
Terphenyl-d14	89		36 - 134				08/12/13 07:23	08/19/13 16:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Arsenic	5.8		0.58	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Barium	63		0.58	0.062	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Beryllium	0.52		0.23	0.020	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Boron	1.9	J	2.9	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Cadmium	0.18	B	0.12	0.015	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Calcium	1700	B	12	3.1	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Chromium	13		0.58	0.067	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Cobalt	11		0.29	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Copper	19	B	0.58	0.051	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Iron	14000		12	4.8	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Lead	55		0.29	0.086	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Magnesium	2400	B	5.8	1.2	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Manganese	510	B	0.58	0.031	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Nickel	14		0.58	0.057	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Potassium	800		29	1.7	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Selenium	0.53	J	0.58	0.21	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Sodium	130		58	7.8	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Thallium	0.51	J	0.58	0.24	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Vanadium	17		0.29	0.043	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Zinc	63		1.2	0.23	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1
Aluminum	8300	B	12	1.1	mg/Kg	☼	08/07/13 10:28	08/24/13 20:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 21:05	1
Lead	0.0077		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 21:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-8

Client Sample ID: 846D-111-B01

Lab Sample ID: 500-60485-32

Date Collected: 08/05/13 12:55

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 04:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 04:40	1
Boron	0.91		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 04:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 04:40	1
Chromium	0.019	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:40	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:40	1
Iron	17		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 04:40	1
Lead	0.018		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 04:40	1
Manganese	0.079		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:40	1
Nickel	0.014	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:40	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 04:40	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:40	1
Zinc	0.48		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 04:40	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:05	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000057	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 12:59	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0088	mg/Kg	☼	08/09/13 15:00	08/12/13 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.92		0.200	0.200	SU			08/17/13 10:51	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-8

Client Sample ID: 846D-111-B02

Lab Sample ID: 500-60485-33

Date Collected: 08/05/13 12:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	08/05/13 12:45	08/10/13 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/05/13 12:45	08/10/13 02:16	1
Dibromofluoromethane	107		75 - 120	08/05/13 12:45	08/10/13 02:16	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/05/13 12:45	08/10/13 02:16	1
Toluene-d8 (Surr)	92		75 - 122	08/05/13 12:45	08/10/13 02:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-8

Client Sample ID: 846D-111-B02

Lab Sample ID: 500-60485-33

Date Collected: 08/05/13 12:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
2-Nitrophenol	<0.36		0.36	0.058	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Fluoranthene	0.029	J	0.036	0.015	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Pyrene	0.029	J	0.036	0.013	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Benzo[a]anthracene	0.020	J	0.036	0.0077	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-8

Client Sample ID: 846D-111-B02

Lab Sample ID: 500-60485-33

Date Collected: 08/05/13 12:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.024	J	0.036	0.0083	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Benzo[b]fluoranthene	0.032	J	0.036	0.0071	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Benzo[k]fluoranthene	0.016	J	0.036	0.0087	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Benzo[a]pyrene	0.035	J	0.036	0.0067	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Indeno[1,2,3-cd]pyrene	0.021	J	0.036	0.012	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Benzo[g,h,i]perylene	0.030	J	0.036	0.012	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/12/13 07:23	08/19/13 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		30 - 110				08/12/13 07:23	08/19/13 16:53	1
Phenol-d5	58		31 - 110				08/12/13 07:23	08/19/13 16:53	1
Nitrobenzene-d5	54		30 - 115				08/12/13 07:23	08/19/13 16:53	1
2-Fluorobiphenyl	60		30 - 119				08/12/13 07:23	08/19/13 16:53	1
2,4,6-Tribromophenol	48		35 - 137				08/12/13 07:23	08/19/13 16:53	1
Terphenyl-d14	83		36 - 134				08/12/13 07:23	08/19/13 16:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Arsenic	8.6		0.57	0.11	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Barium	48		0.57	0.062	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Beryllium	0.59		0.23	0.020	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Boron	6.4		2.9	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Cadmium	0.42	B	0.11	0.015	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Calcium	28000	B	11	3.1	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Chromium	16		0.57	0.067	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Cobalt	12		0.29	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Copper	24	B	0.57	0.051	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Iron	20000		11	4.7	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Lead	19		0.29	0.086	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Magnesium	17000	B	5.7	1.2	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Manganese	470	B	0.57	0.031	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Nickel	27		0.57	0.056	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Potassium	1800		29	1.7	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Sodium	110		57	7.7	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Thallium	0.76		0.57	0.24	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Vanadium	16		0.29	0.043	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Zinc	51		1.1	0.23	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1
Aluminum	9400	B	11	1.1	mg/Kg	☼	08/07/13 10:28	08/24/13 20:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.27		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 21:12	1
Lead	0.0067	J	0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 21:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-8

Client Sample ID: 846D-111-B02

Lab Sample ID: 500-60485-33

Date Collected: 08/05/13 12:45

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.50		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 21:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 04:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 04:46	1
Boron	0.81		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 04:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 04:46	1
Chromium	0.061		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:46	1
Cobalt	0.020	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:46	1
Iron	66		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 04:46	1
Lead	0.046		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 04:46	1
Manganese	0.33		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:46	1
Nickel	0.072		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:46	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 04:46	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:46	1
Zinc	0.53		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 04:46	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:06	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00015	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 13:01	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0086	mg/Kg	☼	08/09/13 15:00	08/12/13 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.29		0.200	0.200	SU			08/17/13 10:54	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-8

Client Sample ID: 846D-111-B03

Lab Sample ID: 500-60485-34

Date Collected: 08/05/13 11:50

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0079		0.0047	0.0020	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	08/05/13 11:50	08/10/13 02:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	08/05/13 11:50	08/10/13 02:39	1
Dibromofluoromethane	103		75 - 120	08/05/13 11:50	08/10/13 02:39	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/05/13 11:50	08/10/13 02:39	1
Toluene-d8 (Surr)	95		75 - 122	08/05/13 11:50	08/10/13 02:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-8

Client Sample ID: 846D-111-B03

Lab Sample ID: 500-60485-34

Date Collected: 08/05/13 11:50

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-8

Client Sample ID: 846D-111-B03

Lab Sample ID: 500-60485-34

Date Collected: 08/05/13 11:50

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/12/13 07:23	08/18/13 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	44		30 - 110				08/12/13 07:23	08/18/13 20:53	1
Phenol-d5	48		31 - 110				08/12/13 07:23	08/18/13 20:53	1
Nitrobenzene-d5	44		30 - 115				08/12/13 07:23	08/18/13 20:53	1
2-Fluorobiphenyl	46		30 - 119				08/12/13 07:23	08/18/13 20:53	1
2,4,6-Tribromophenol	38		35 - 137				08/12/13 07:23	08/18/13 20:53	1
Terphenyl-d14	69		36 - 134				08/12/13 07:23	08/18/13 20:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Arsenic	8.3		0.57	0.11	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Barium	28		0.57	0.061	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Beryllium	0.56		0.23	0.020	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Boron	8.3		2.8	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Cadmium	0.44 B		0.11	0.014	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Calcium	41000 B		11	3.1	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Chromium	16		0.57	0.066	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Cobalt	8.3		0.28	0.020	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Copper	22 B		0.57	0.050	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Iron	19000		11	4.7	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Lead	13		0.28	0.085	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Magnesium	25000 B		5.7	1.2	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Manganese	340 B		0.57	0.031	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Nickel	23		0.57	0.056	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Potassium	2200		28	1.7	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Sodium	1500		57	7.6	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Thallium	0.54 J		0.57	0.24	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Vanadium	16		0.28	0.042	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Zinc	56		1.1	0.23	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1
Aluminum	8800 B		11	1.0	mg/Kg	☼	08/07/13 10:28	08/24/13 20:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 21:18	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 21:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-8

Client Sample ID: 846D-111-B03

Lab Sample ID: 500-60485-34

Date Collected: 08/05/13 11:50

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.62		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 21:18	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.73		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 04:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 04:52	1
Boron	0.89		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 04:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 04:52	1
Chromium	0.073		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:52	1
Cobalt	0.019	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:52	1
Iron	86		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 04:52	1
Lead	0.043		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 04:52	1
Manganese	0.31		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:52	1
Nickel	0.080		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:52	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 04:52	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:52	1
Zinc	0.66		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 04:52	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/29/13 10:00	09/04/13 17:31	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:08	1
Thallium	0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:08	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 13:03	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0084	mg/Kg	☼	08/09/13 15:00	08/12/13 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.22		0.200	0.200	SU			08/17/13 10:58	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-8

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US6/IL7WileyCook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: AEZ	COC No.: 1 of 2 Lab Job No.: 500-60485 Sample Temp: 38.4/3.5/37.3/3.9 Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other								
SPECIAL INSTRUCTIONS: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.											
ANALYSES											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	7.5-15
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X</								



CHAIN OF CUSTODY RECORD

Client Contact	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com
Laboratory	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>US6/IL7 Wild + Cook Co</u> Project No.: <u>IDOT 2013 - 023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: <u>ASZ</u> Sampler: _____	
COC No.: <u>2</u> of <u>2</u> Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/39</u> Matrix Key: _____	

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCs	SVOCs	BETX & MTBE	PNA's	Pesticides	PCBS	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization	
15	846D-105-B06-a	8/5/13	3:40	S	X	X				X	X	X	X	X	X		7.5-15
16	846D-105-B07-1		2:25	S	X	X				X	X	X	X	X	X		0-7.5
17	846D-105-B07-1 DUP		2:40	S	X	X				X	X	X	X	X	X		0-7.5
18	846D-105-B07-a		2:30	S	X	X				X	X	X	X	X	X		7.5-15
19	846D-105-B08-1		1:20	S	X	X				X	X	X	X	X	X		0-7.5
20	846D-105-B08-a		1:30	S	X	X				X	X	X	X	X	X		7.5-15

Relinquished by: <u>John A. Wright (NET)</u>	Date/Time: <u>8/5/13 4:15</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8-5-13/1608</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/5/13 1655</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/13/1655</u>
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7 Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____	COC No.: _____ of _____ Lab Job No.: _____ Sample Temp: <u>500-60485</u> Matrix Key: <u>3846353739</u> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
26	846D-108-B01	8/5	11:05	S	X	X					X	X	X	X		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> Relinquished by: Relinquished by: Relinquished by: _____ </div> <div style="width: 30%;"> Date/Time: <u>8/5/13 7:00</u> Date/Time: <u>8/5/13 1055</u> Date/Time: _____ </div> <div style="width: 30%;"> Received by: Received by: Received by: _____ </div> <div style="width: 30%;"> Date/Time: <u>8-5-13/1000</u> Date/Time: <u>8/5/13 1055</u> Date/Time: _____ </div> </div>																



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Information Project Name: US6/IL76WJW + Cook Co. Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: ABZ		Administrative COC No.: 1 of 1 Lab Job No.: 500-60485 Sample Temp: 38.4/35.3/32.9 Matrix Key:																														
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES																																		
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments																				
32	846D-111-B01	8/5/13	12:55	S	X	X					X	X	X	X		0-4'																				
33	846D-111-B02	8/5/13	12:45	S	X	X					X	X	X	X		0-4'																				
34	846D-111-B03	8/5/13	11:50	S	X	X					X	X	X	X		0-4'																				
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">Relinquished by:</td> <td style="width:25%;">Date/Time</td> <td style="width:25%;">Received by:</td> <td style="width:25%;">Date/Time</td> </tr> <tr> <td>Richard Wright (ABZ)</td> <td>8/5/13 4:15</td> <td>[Signature]</td> <td>8/5/13 1:00</td> </tr> <tr> <td>[Signature]</td> <td>8/5/13 1:05</td> <td>[Signature]</td> <td>8/5/13 1:05</td> </tr> <tr> <td>Relinquished by:</td> <td>Date/Time</td> <td>Relinquished by:</td> <td>Date/Time</td> </tr> <tr> <td>Relinquished by:</td> <td>Date/Time</td> <td>Relinquished by:</td> <td>Date/Time</td> </tr> </table>																	Relinquished by:	Date/Time	Received by:	Date/Time	Richard Wright (ABZ)	8/5/13 4:15	[Signature]	8/5/13 1:00	[Signature]	8/5/13 1:05	[Signature]	8/5/13 1:05	Relinquished by:	Date/Time	Relinquished by:	Date/Time	Relinquished by:	Date/Time	Relinquished by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time																																	
Richard Wright (ABZ)	8/5/13 4:15	[Signature]	8/5/13 1:00																																	
[Signature]	8/5/13 1:05	[Signature]	8/5/13 1:05																																	
Relinquished by:	Date/Time	Relinquished by:	Date/Time																																	
Relinquished by:	Date/Time	Relinquished by:	Date/Time																																	



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12101 to 12121 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60012 Longitude: -87.91385

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60012 Longitude: -87.91385

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-112-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-112. SEE FIGURE 20 AND TABLE 3cq OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60485-9

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

**ISGS Site 846D-112
Shopping Center**

Sample ID	846D-112-B01	846D-112-B02						
Sample Depth (ft)	0-5	0-5						
Sample Date	8/5/2013	8/5/2013						
PID	0	0						
Sample pH	8.71	8.54						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								
			¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-60485-9
Client Project/Site: IDOT - Gougar - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/9/2013 4:55:33 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-9

Client Sample ID: 846D-112-B01

Lab Sample ID: 500-60485-35

Date Collected: 08/05/13 10:15

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 82.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0099		0.0044	0.0019	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Carbon tetrachloride	<0.0044		0.0044	0.00079	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
1,1-Dichloroethene	<0.0044		0.0044	0.00070	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
1,2-Dichloropropane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00078	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1
Xylenes, Total	<0.0087		0.0087	0.00040	mg/Kg	☼	08/05/13 10:15	08/10/13 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/05/13 10:15	08/10/13 03:02	1
Dibromofluoromethane	103		75 - 120	08/05/13 10:15	08/10/13 03:02	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/05/13 10:15	08/10/13 03:02	1
Toluene-d8 (Surr)	94		75 - 122	08/05/13 10:15	08/10/13 03:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-9

Client Sample ID: 846D-112-B01

Lab Sample ID: 500-60485-35

Date Collected: 08/05/13 10:15

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Hexachlorobenzene	<0.077		0.077	0.0076	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Phenanthrene	0.049		0.038	0.016	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Fluoranthene	0.085		0.038	0.016	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Pyrene	0.072		0.038	0.014	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Benzo[a]anthracene	0.030 J		0.038	0.0080	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-9

Client Sample ID: 846D-112-B01

Lab Sample ID: 500-60485-35

Date Collected: 08/05/13 10:15

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.045		0.038	0.0087	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Benzo[b]fluoranthene	0.048		0.038	0.0075	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Benzo[k]fluoranthene	0.028	J	0.038	0.0092	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Benzo[a]pyrene	0.046		0.038	0.0070	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Indeno[1,2,3-cd]pyrene	0.031	J	0.038	0.013	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Benzo[g,h,i]perylene	0.041		0.038	0.013	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/12/13 07:23	08/19/13 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		30 - 110				08/12/13 07:23	08/19/13 17:10	1
Phenol-d5	49		31 - 110				08/12/13 07:23	08/19/13 17:10	1
Nitrobenzene-d5	48		30 - 115				08/12/13 07:23	08/19/13 17:10	1
2-Fluorobiphenyl	51		30 - 119				08/12/13 07:23	08/19/13 17:10	1
2,4,6-Tribromophenol	40		35 - 137				08/12/13 07:23	08/19/13 17:10	1
Terphenyl-d14	73		36 - 134				08/12/13 07:23	08/19/13 17:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Arsenic	8.8		0.60	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Barium	34		0.60	0.064	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Beryllium	0.53		0.24	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Boron	7.9		3.0	0.13	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Cadmium	0.55	B	0.12	0.015	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Calcium	80000	B	120	33	mg/Kg	☼	08/07/13 10:28	08/25/13 15:12	10
Chromium	13		0.60	0.070	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Cobalt	10		0.30	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Copper	25	B	0.60	0.053	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Iron	18000		12	4.9	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Lead	13		0.30	0.090	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Magnesium	37000	B	6.0	1.2	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Manganese	440	B	0.60	0.033	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Nickel	24		0.60	0.059	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Potassium	1700		30	1.8	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Sodium	240		60	8.1	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Thallium	0.30	J	0.60	0.25	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Vanadium	16		0.30	0.045	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Zinc	47		1.2	0.24	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1
Aluminum	7500	B	12	1.1	mg/Kg	☼	08/07/13 10:28	08/24/13 20:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.24		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 21:39	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 21:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-9

Client Sample ID: 846D-112-B01

Lab Sample ID: 500-60485-35

Date Collected: 08/05/13 10:15

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 04:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 04:58	1
Boron	0.79		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 04:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 04:58	1
Chromium	0.014	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:58	1
Cobalt	0.0056	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:58	1
Iron	12		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 04:58	1
Lead	0.015		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 04:58	1
Manganese	0.12		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:58	1
Nickel	0.015	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 04:58	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 04:58	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 04:58	1
Zinc	0.41		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 04:58	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:09	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00026		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 13:05	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0090	mg/Kg	✱	08/09/13 15:00	08/12/13 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.71		0.200	0.200	SU			08/17/13 11:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-9

Client Sample ID: 846D-112-B02

Lab Sample ID: 500-60485-36

Date Collected: 08/05/13 10:10

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.018		0.0044	0.0019	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	08/05/13 10:10	08/10/13 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/05/13 10:10	08/10/13 03:24	1
Dibromofluoromethane	106		75 - 120	08/05/13 10:10	08/10/13 03:24	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/05/13 10:10	08/10/13 03:24	1
Toluene-d8 (Surr)	94		75 - 122	08/05/13 10:10	08/10/13 03:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-9

Client Sample ID: 846D-112-B02

Lab Sample ID: 500-60485-36

Date Collected: 08/05/13 10:10

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-9

Client Sample ID: 846D-112-B02

Lab Sample ID: 500-60485-36

Date Collected: 08/05/13 10:10

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/12/13 07:23	08/18/13 21:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		30 - 110				08/12/13 07:23	08/18/13 21:27	1
Phenol-d5	55		31 - 110				08/12/13 07:23	08/18/13 21:27	1
Nitrobenzene-d5	50		30 - 115				08/12/13 07:23	08/18/13 21:27	1
2-Fluorobiphenyl	52		30 - 119				08/12/13 07:23	08/18/13 21:27	1
2,4,6-Tribromophenol	48		35 - 137				08/12/13 07:23	08/18/13 21:27	1
Terphenyl-d14	93		36 - 134				08/12/13 07:23	08/18/13 21:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Arsenic	8.3		0.57	0.11	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Barium	32		0.57	0.061	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Beryllium	0.57		0.23	0.020	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Boron	7.5		2.8	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Cadmium	0.42	B	0.11	0.014	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Calcium	38000	B	11	3.1	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Chromium	16		0.57	0.066	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Cobalt	11		0.28	0.020	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Copper	23	B	0.57	0.050	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Iron	19000		11	4.7	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Lead	14		0.28	0.085	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Magnesium	23000	B	5.7	1.2	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Manganese	410	B	0.57	0.031	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Nickel	27		0.57	0.056	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Potassium	2000		28	1.7	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Sodium	140		57	7.6	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Thallium	0.59		0.57	0.24	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Vanadium	16		0.28	0.042	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Zinc	48		1.1	0.23	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1
Aluminum	9100	B	11	1.0	mg/Kg	☼	08/07/13 10:28	08/24/13 20:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 21:45	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 21:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-9

Client Sample ID: 846D-112-B02

Lab Sample ID: 500-60485-36

Date Collected: 08/05/13 10:10

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.67		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 05:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 05:05	1
Boron	0.86		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 05:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 05:05	1
Chromium	0.020	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 05:05	1
Cobalt	0.0051	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 05:05	1
Iron	18		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 05:05	1
Lead	0.011		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 05:05	1
Manganese	0.081		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 05:05	1
Nickel	0.019	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 05:05	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 05:05	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 05:05	1
Zinc	0.47		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 05:05	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:10	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000024	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 13:07	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0081	mg/Kg	☆	08/09/13 15:00	08/12/13 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.54		0.200	0.200	SU			08/17/13 11:05	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-9

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Information Project Name: US6/IL7 Will & Cook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: _____ of _____ Lab Job No.: 500-60485 Sample Temp: 38.4/35.3/39 Matrix Key:										
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.				ANALYSES												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
1	846D-103-B01	8/5	12:45	S	X	X					X	X	X	X		
2	846D-103-B02	8/5	12:35	S	X	X					X	X	X	X		
Relinquished by: Date/Time: 8/5/13 4:00 Relinquished by: Date/Time: 8/5/13 1655 Relinquished by: Date/Time: 8/5/13 1655																



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US6/IL7WileyCook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: AEZ	COC No.: 1 of 2 Lab Job No.: 500-60485 Sample Temp: 38.4/3.5/37.3/3.9 Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other								
SPECIAL INSTRUCTIONS: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.											
ANALYSES											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	7.5-15
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X								



CHAIN OF CUSTODY RECORD

Client Contact	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com
Laboratory	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>US6/IL7 Wild + Cook Co</u> Project No.: <u>IDOT 2013 - 023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: <u>ASZ</u> Sampler: _____ COC No.: <u>2</u> of <u>2</u> Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/39</u> Matrix Key: _____	

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization	
15	846D-105-B06-a	8/5/13	3:40	S	X	X				X	X	X	X	X	X		7.5-15
16	846D-105-B07-1		2:25	S	X	X				X	X	X	X	X	X		0-7.5
17	846D-105-B07-1 DUP		2:40	S	X	X				X	X	X	X	X	X		0-7.5
18	846D-105-B07-a		2:30	S	X	X				X	X	X	X	X	X		7.5-15
19	846D-105-B08-1		1:20	S	X	X				X	X	X	X	X	X		0-7.5
20	846D-105-B08-a		1:30	S	X	X				X	X	X	X	X	X		7.5-15
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																	
Relinquished by: <u>John A. Wright (NET)</u> Date/Time: <u>8/5/13 4:15</u>					Received by: <u>[Signature]</u> Date/Time: <u>8-5-13/1608</u>												
Relinquished by: <u>[Signature]</u> Date/Time: <u>8/5/13 1655</u>					Received by: <u>[Signature]</u> Date/Time: <u>8/5/13 1655</u>												
Relinquished by: _____ Date/Time: _____					Received by: _____ Date/Time: _____												



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7/Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____ Matrix Key: _____	COC No.: _____ of _____ Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/3.9</u>													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
35	846D-112-B01	8/5	10:15	S	X	X					X	X	X	X		
36	846D-112-B02	8/5	10:10	S	X	X					X	X	X	X		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> Relinquished by: Relinquished by: Relinquished by: _____ </div> <div style="width: 30%;"> Date/Time: <u>8/5/13 1:00</u> Date/Time: <u>8/5/13 1:05</u> Date/Time: _____ </div> <div style="width: 30%;"> Received by: Received by: Received by: _____ </div> <div style="width: 30%;"> Date/Time: <u>8-5-12/1600</u> Date/Time: <u>8/5/13 1:05</u> Date/Time: _____ </div> </div>																



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7Wilson Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: <u>AEZ</u> Sampler: <u>AEZ</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/37.3/9</u> Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other														
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES															
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments	
53	846D-119-B01	8/5/13	9:30	S	X	X			X		X	X	X	X		0-6'	
54	846D-119-B02	8/5/13	9:50	S	X	X			X		X	X	X	X		0-6'	
55	846D-119-B03	8/5/13	10:10	S	X	X			X		X	X	X	X		0-6'	
					Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	
Relinquished by: <u>Kim Adams (AEZ)</u>					8/5/13	4:15											8-5-13/16/15
Relinquished by: <u>[Signature]</u>					8/5/13	16:55											8/5/13/16:55
Relinquished by: <u>[Signature]</u>					Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Approximately 12040 to 12106 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60035 Longitude: -87.91318

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)
Latitude: 41.60035 Longitude: -87.91318

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-113-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-113. SEE FIGURE 20 AND TABLE 3cr OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60485-10

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

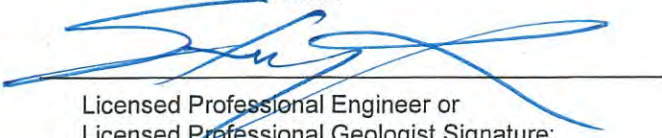
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

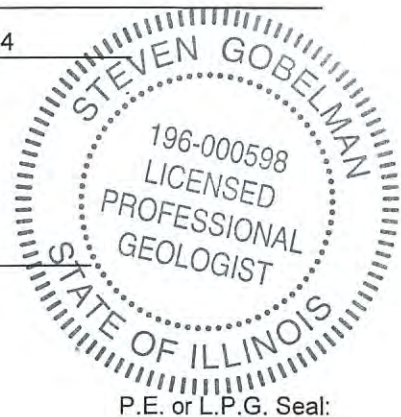
Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-113

Vacant Area

Sample ID	846D-113-B01	846D-113-B02						
Sample Depth (ft)	0-4	0-4						
Sample Date	8/5/2013	8/5/2013						
PID	0	0						
Sample pH	8.52	8.6						
Matrix	Soil	Soil						

No Contaminants of Concern Noted.

	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-60485-10

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/9/2013 4:56:04 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-10

Client Sample ID: 846D-113-B01

Lab Sample ID: 500-60485-37

Date Collected: 08/05/13 11:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0058		0.0040	0.0017	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Bromoform	<0.0040		0.0040	0.00092	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Chloromethane	<0.0040		0.0040	0.00084	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
1,1-Dichloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
1,1-Dichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Ethylbenzene	<0.0040		0.0040	0.00081	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0010	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00066	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Tetrachloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Vinyl chloride	<0.0040		0.0040	0.00084	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1
Xylenes, Total	<0.0080		0.0080	0.00036	mg/Kg	☼	08/05/13 11:45	08/10/13 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	08/05/13 11:45	08/10/13 03:47	1
Dibromofluoromethane	102		75 - 120	08/05/13 11:45	08/10/13 03:47	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/05/13 11:45	08/10/13 03:47	1
Toluene-d8 (Surr)	95		75 - 122	08/05/13 11:45	08/10/13 03:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-10

Client Sample ID: 846D-113-B01

Lab Sample ID: 500-60485-37

Date Collected: 08/05/13 11:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-10

Client Sample ID: 846D-113-B01

Lab Sample ID: 500-60485-37

Date Collected: 08/05/13 11:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/12/13 07:23	08/18/13 21:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	44		30 - 110	08/12/13 07:23	08/18/13 21:44	1
Phenol-d5	45		31 - 110	08/12/13 07:23	08/18/13 21:44	1
Nitrobenzene-d5	43		30 - 115	08/12/13 07:23	08/18/13 21:44	1
2-Fluorobiphenyl	45		30 - 119	08/12/13 07:23	08/18/13 21:44	1
2,4,6-Tribromophenol	42		35 - 137	08/12/13 07:23	08/18/13 21:44	1
Terphenyl-d14	73		36 - 134	08/12/13 07:23	08/18/13 21:44	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0092		0.0092	0.0038	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
alpha-BHC	<0.0092		0.0092	0.0023	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
alpha-Chlordane	<0.0092		0.0092	0.0046	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
beta-BHC	<0.0092		0.0092	0.0028	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
4,4'-DDD	<0.0092		0.0092	0.0018	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
4,4'-DDE	<0.0092		0.0092	0.0015	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
4,4'-DDT	<0.0092		0.0092	0.0048	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
delta-BHC	<0.0092		0.0092	0.0028	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
Dieldrin	<0.0092		0.0092	0.0012	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
Endosulfan I	<0.0092		0.0092	0.0040	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
Endosulfan II	<0.0092		0.0092	0.0015	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
Endosulfan sulfate	<0.0092		0.0092	0.0017	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
Endrin	<0.0092		0.0092	0.0013	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
Endrin aldehyde	<0.0092		0.0092	0.0015	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
Endrin ketone	<0.0092		0.0092	0.0020	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
gamma-BHC (Lindane)	<0.0092		0.0092	0.0020	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
gamma-Chlordane	<0.0092		0.0092	0.0024	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
Heptachlor	<0.0092		0.0092	0.0038	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
Heptachlor epoxide	<0.0092		0.0092	0.0032	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
Methoxychlor	<0.045		0.045	0.0018	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5
Toxaphene	<0.090		0.090	0.038	mg/Kg	☼	08/10/13 13:31	08/14/13 23:47	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		56 - 128	08/10/13 13:31	08/14/13 23:47	5
Tetrachloro-m-xylene	79		45 - 112	08/10/13 13:31	08/14/13 23:47	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-10

Client Sample ID: 846D-113-B01

Lab Sample ID: 500-60485-37

Date Collected: 08/05/13 11:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 87.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Arsenic	8.8		0.57	0.11	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Barium	26		0.57	0.060	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Beryllium	0.53		0.23	0.020	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Boron	8.3		2.8	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Cadmium	0.42	B	0.11	0.014	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Calcium	44000	B	11	3.1	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Chromium	15		0.57	0.066	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Cobalt	8.8		0.28	0.020	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Copper	22	B	0.57	0.050	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Iron	19000		11	4.6	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Lead	13		0.28	0.084	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Magnesium	24000	B	5.7	1.2	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Manganese	350	B	0.57	0.031	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Nickel	23		0.57	0.055	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Potassium	2200		28	1.7	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Sodium	1100		57	7.6	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Thallium	0.63		0.57	0.24	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Vanadium	15		0.28	0.042	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Zinc	49		1.1	0.23	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1
Aluminum	8200	B	11	1.0	mg/Kg	☼	08/07/13 10:28	08/24/13 20:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.23		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 21:51	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 21:51	1
Manganese	0.33		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 21:51	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.69		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 05:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 05:11	1
Boron	0.83		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 05:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 05:11	1
Chromium	0.032		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 05:11	1
Cobalt	0.0092	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 05:11	1
Iron	35		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 05:11	1
Lead	0.029		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 05:11	1
Manganese	0.20		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 05:11	1
Nickel	0.031		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 05:11	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 05:11	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 05:11	1
Zinc	0.49		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 05:11	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-10

Client Sample ID: 846D-113-B01

Lab Sample ID: 500-60485-37

Date Collected: 08/05/13 11:45

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00025		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 13:09	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0085	mg/Kg	☼	08/09/13 15:00	08/12/13 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.52		0.200	0.200	SU			08/17/13 11:09	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-10

Client Sample ID: 846D-113-B02

Lab Sample ID: 500-60485-38

Date Collected: 08/05/13 11:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00062	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00062	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0012	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Styrene	<0.0048		0.0048	0.00062	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00065	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	08/05/13 11:30	08/10/13 04:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/05/13 11:30	08/10/13 04:10	1
Dibromofluoromethane	107		75 - 120	08/05/13 11:30	08/10/13 04:10	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	08/05/13 11:30	08/10/13 04:10	1
Toluene-d8 (Surr)	94		75 - 122	08/05/13 11:30	08/10/13 04:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-10

Client Sample ID: 846D-113-B02

Lab Sample ID: 500-60485-38

Date Collected: 08/05/13 11:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Fluoranthene	0.029	J	0.037	0.015	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Pyrene	0.032	J	0.037	0.013	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Benzo[a]anthracene	0.018	J	0.037	0.0078	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-10

Client Sample ID: 846D-113-B02

Lab Sample ID: 500-60485-38

Date Collected: 08/05/13 11:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.021	J	0.037	0.0084	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Benzo[b]fluoranthene	0.025	J	0.037	0.0072	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Benzo[k]fluoranthene	0.014	J	0.037	0.0088	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Benzo[a]pyrene	0.029	J	0.037	0.0068	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Indeno[1,2,3-cd]pyrene	0.018	J	0.037	0.013	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
Benzo[g,h,i]perylene	0.026	J	0.037	0.013	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/12/13 07:23	08/19/13 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		30 - 110	08/12/13 07:23	08/19/13 17:27	1
Phenol-d5	53		31 - 110	08/12/13 07:23	08/19/13 17:27	1
Nitrobenzene-d5	42		30 - 115	08/12/13 07:23	08/19/13 17:27	1
2-Fluorobiphenyl	46		30 - 119	08/12/13 07:23	08/19/13 17:27	1
2,4,6-Tribromophenol	55		35 - 137	08/12/13 07:23	08/19/13 17:27	1
Terphenyl-d14	78		36 - 134	08/12/13 07:23	08/19/13 17:27	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0097		0.0097	0.0040	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
alpha-BHC	<0.0097		0.0097	0.0024	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
alpha-Chlordane	<0.0097		0.0097	0.0048	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
beta-BHC	<0.0097		0.0097	0.0030	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
4,4'-DDD	<0.0097		0.0097	0.0019	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
4,4'-DDE	<0.0097		0.0097	0.0016	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
4,4'-DDT	<0.0097		0.0097	0.0050	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
delta-BHC	<0.0097		0.0097	0.0030	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
Dieldrin	<0.0097		0.0097	0.0013	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
Endosulfan I	<0.0097		0.0097	0.0042	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
Endosulfan II	<0.0097		0.0097	0.0016	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
Endosulfan sulfate	<0.0097		0.0097	0.0017	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
Endrin	<0.0097		0.0097	0.0013	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
Endrin aldehyde	<0.0097		0.0097	0.0016	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
Endrin ketone	<0.0097		0.0097	0.0022	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
gamma-BHC (Lindane)	<0.0097		0.0097	0.0021	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
gamma-Chlordane	<0.0097		0.0097	0.0025	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
Heptachlor	<0.0097		0.0097	0.0040	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
Heptachlor epoxide	<0.0097		0.0097	0.0034	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
Methoxychlor	<0.048		0.048	0.0019	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5
Toxaphene	<0.096		0.096	0.040	mg/Kg	☼	08/10/13 13:31	08/15/13 00:07	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	101		56 - 128	08/10/13 13:31	08/15/13 00:07	5
Tetrachloro-m-xylene	72		45 - 112	08/10/13 13:31	08/15/13 00:07	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-10

Client Sample ID: 846D-113-B02

Lab Sample ID: 500-60485-38

Date Collected: 08/05/13 11:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Arsenic	7.2		0.58	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Barium	46		0.58	0.062	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Beryllium	0.61		0.23	0.020	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Boron	6.9		2.9	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Cadmium	0.30	B	0.12	0.015	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Calcium	30000	B	12	3.1	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Chromium	15		0.58	0.067	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Cobalt	11		0.29	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Copper	22	B	0.58	0.051	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Iron	18000		12	4.8	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Lead	21		0.29	0.086	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Magnesium	20000	B	5.8	1.2	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Manganese	370	B	0.58	0.031	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Nickel	24		0.58	0.057	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Potassium	1900		29	1.7	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Sodium	760		58	7.8	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Thallium	0.51	J	0.58	0.24	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Vanadium	18		0.29	0.043	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Zinc	53		1.2	0.23	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1
Aluminum	9700	B	12	1.1	mg/Kg	☼	08/07/13 10:28	08/24/13 21:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 21:57	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 21:57	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 05:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 05:17	1
Boron	0.85		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 05:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 05:17	1
Chromium	0.027		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 05:17	1
Cobalt	0.0058	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 05:17	1
Iron	22		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 05:17	1
Lead	0.017		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 05:17	1
Manganese	0.12		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 05:17	1
Nickel	0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 05:17	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 05:17	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 05:17	1
Zinc	0.47		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 05:17	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-10

Client Sample ID: 846D-113-B02

Lab Sample ID: 500-60485-38

Date Collected: 08/05/13 11:30

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000054	J	0.00020	0.000020	mg/L	—	08/13/13 15:30	08/14/13 13:11	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0083	mg/Kg	☼	08/09/13 15:00	08/12/13 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.60		0.200	0.200	SU	—		08/17/13 11:12	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-10

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US6/IL7WileyCook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: AEZ	COC No.: 1 of 2 Lab Job No.: 500-60485 Sample Temp: 38.4/3.5/37.3/3.9 Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other								
SPECIAL INSTRUCTIONS: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.											
ANALYSES											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	7.5-15
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X								



CHAIN OF CUSTODY RECORD

Client Contact
 Andrews Engineering, Inc.
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 Lab: Test America - Chicago
 Address: 2417 Bond Street
 University Park, IL 60484
 Phone: 708-534-5200
 Contact: Dick Wright
 email: richard.wright@testamericainc.com

Project Name: US6/IL7 Willard + Cook Co
 Project No.: IDOT 2013 - 023
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Other: ASZ

COC No.: 2 of 2
 Lab Job No.: 500-60485
 Sample Temp: 38.4/35.3/39
 Matrix Key: 38.4/35.3/39

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNA's	Pesticides	PCBS	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
15	846D-105-B06-a	8/5/13	3:40	S	X	X			X		X	X	X	X		7.5-15
16	846D-105-B07-1		2:25	S	X	X			X		X	X	X	X		0-7.5
17	846D-105-B07-1 DUP		2:40	S	X	X			X		X	X	X	X		0-7.5
18	846D-105-B07-a		2:30	S	X	X			X		X	X	X	X		7.5-15
19	846D-105-B08-1		1:20	S	X	X			X		X	X	X	X		0-7.5
20	846D-105-B08-a		1:30	S	X	X			X		X	X	X	X		7.5-15

ANALYSES

Relinquished by: John A. Wright (NET) Date/Time: 8/5/13 4:15 Received by: [Signature] Date/Time: 8/5/13 1655

Relinquished by: [Signature] Date/Time: 8/5/13 1655 Received by: [Signature] Date/Time: 8/5/13 1655

Relinquished by: [Signature] Date/Time: 8/5/13 1655 Received by: [Signature] Date/Time: 8/5/13 1655



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12053 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60013 Longitude: -87.91290

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60013 Longitude: -87.91290

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATION 846D-114-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-114. SEE FIGURE 20 AND TABLE 3cs OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60485-11

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

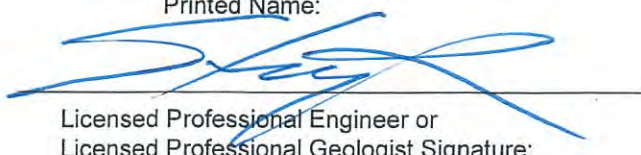
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

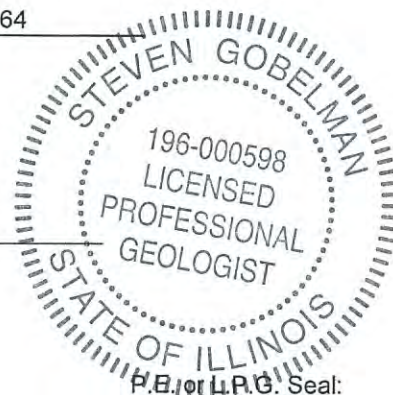
Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-60485-11

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/9/2013 4:56:35 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-11

Client Sample ID: 846D-114-B01

Lab Sample ID: 500-60485-39

Date Collected: 08/05/13 10:00

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	08/05/13 10:00	08/10/13 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/05/13 10:00	08/10/13 04:34	1
Dibromofluoromethane	104		75 - 120	08/05/13 10:00	08/10/13 04:34	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/05/13 10:00	08/10/13 04:34	1
Toluene-d8 (Surr)	96		75 - 122	08/05/13 10:00	08/10/13 04:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-11

Client Sample ID: 846D-114-B01

Lab Sample ID: 500-60485-39

Date Collected: 08/05/13 10:00

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-11

Client Sample ID: 846D-114-B01

Lab Sample ID: 500-60485-39

Date Collected: 08/05/13 10:00

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/12/13 07:23	08/18/13 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		30 - 110	08/12/13 07:23	08/18/13 22:18	1
Phenol-d5	53		31 - 110	08/12/13 07:23	08/18/13 22:18	1
Nitrobenzene-d5	45		30 - 115	08/12/13 07:23	08/18/13 22:18	1
2-Fluorobiphenyl	47		30 - 119	08/12/13 07:23	08/18/13 22:18	1
2,4,6-Tribromophenol	43		35 - 137	08/12/13 07:23	08/18/13 22:18	1
Terphenyl-d14	72		36 - 134	08/12/13 07:23	08/18/13 22:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Arsenic	8.6		0.57	0.11	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Barium	48		0.57	0.061	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Beryllium	0.64		0.23	0.020	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Boron	7.5		2.9	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Cadmium	0.38	B	0.11	0.015	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Calcium	34000	B	11	3.1	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Chromium	16		0.57	0.067	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Cobalt	11		0.29	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Copper	21	B	0.57	0.051	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Iron	20000		11	4.7	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Lead	15		0.29	0.086	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Magnesium	20000	B	5.7	1.2	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Manganese	450	B	0.57	0.031	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Nickel	28		0.57	0.056	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Potassium	2200		29	1.7	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Sodium	210		57	7.7	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Thallium	0.38	J	0.57	0.24	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Vanadium	18		0.29	0.043	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Zinc	51		1.1	0.23	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1
Aluminum	10000	B	11	1.1	mg/Kg	☼	08/07/13 10:28	08/24/13 21:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 22:04	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 22:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-11

Client Sample ID: 846D-114-B01

Lab Sample ID: 500-60485-39

Date Collected: 08/05/13 10:00

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 05:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 05:23	1
Boron	0.78		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 05:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 05:23	1
Chromium	0.021	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 05:23	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 05:23	1
Iron	18		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 05:23	1
Lead	0.0098		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 05:23	1
Manganese	0.070		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 05:23	1
Nickel	0.019	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 05:23	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 05:23	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 05:23	1
Zinc	0.42		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 05:23	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 17:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 17:59	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000043	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 13:17	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0089	mg/Kg	✱	08/09/13 15:00	08/12/13 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.11		0.200	0.200	SU			08/17/13 11:16	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-11

Client Sample ID: 846D-114-B01 DUP

Lab Sample ID: 500-60485-40

Date Collected: 08/05/13 10:05

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	08/05/13 10:05	08/10/13 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	08/05/13 10:05	08/10/13 04:56	1
Dibromofluoromethane	104		75 - 120	08/05/13 10:05	08/10/13 04:56	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/05/13 10:05	08/10/13 04:56	1
Toluene-d8 (Surr)	95		75 - 122	08/05/13 10:05	08/10/13 04:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-11

Client Sample ID: 846D-114-B01 DUP

Lab Sample ID: 500-60485-40

Date Collected: 08/05/13 10:05

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-11

Client Sample ID: 846D-114-B01 DUP

Lab Sample ID: 500-60485-40

Date Collected: 08/05/13 10:05

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	08/12/13 07:23	08/18/13 22:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		30 - 110	08/12/13 07:23	08/18/13 22:36	1
Phenol-d5	45		31 - 110	08/12/13 07:23	08/18/13 22:36	1
Nitrobenzene-d5	39		30 - 115	08/12/13 07:23	08/18/13 22:36	1
2-Fluorobiphenyl	41		30 - 119	08/12/13 07:23	08/18/13 22:36	1
2,4,6-Tribromophenol	39		35 - 137	08/12/13 07:23	08/18/13 22:36	1
Terphenyl-d14	72		36 - 134	08/12/13 07:23	08/18/13 22:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Arsenic	10		0.61	0.12	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Barium	80		0.61	0.066	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Beryllium	0.81		0.25	0.022	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Boron	5.5		3.1	0.13	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Cadmium	0.33	B	0.12	0.016	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Calcium	14000	B	12	3.3	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Chromium	20		0.61	0.071	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Cobalt	13		0.31	0.022	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Copper	26	B	0.61	0.055	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Iron	24000		12	5.1	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Lead	17		0.31	0.092	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Magnesium	13000	B	6.1	1.3	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Manganese	460	B	0.61	0.033	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Nickel	33		0.61	0.060	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Potassium	1900		31	1.8	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Selenium	0.22	J	0.61	0.22	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Sodium	160		61	8.2	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Thallium	0.42	J	0.61	0.26	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Vanadium	21		0.31	0.045	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Zinc	53		1.2	0.25	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1
Aluminum	13000	B	12	1.1	mg/Kg	☼	08/07/13 10:28	08/24/13 21:15	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64		0.50	0.010	mg/L		08/12/13 13:00	08/26/13 05:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 05:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-11

Client Sample ID: 846D-114-B01 DUP

Lab Sample ID: 500-60485-40

Date Collected: 08/05/13 10:05

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.80		0.10	0.050	mg/L		08/12/13 13:00	08/26/13 05:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 05:30	1
Chromium	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 05:30	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 05:30	1
Iron	1.7		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 05:30	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 05:30	1
Manganese	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 05:30	1
Nickel	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 05:30	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 05:30	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 05:30	1
Zinc	0.40		0.10	0.020	mg/L		08/12/13 13:00	08/26/13 05:30	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:01	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 13:19	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0090	mg/Kg	☼	08/09/13 15:00	08/12/13 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.53		0.200	0.200	SU			08/17/13 11:23	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-11

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12000 to 12030 159th Street and 15844 Will-Cook Road (Northwest Quadrant of 159th St and Will-Cook Rd)

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60038 Longitude: -87.91157
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)Latitude: 41.60038 Longitude: -87.91157Uncontaminated Site Certification**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 846D-115-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 846D-115. SEE FIGURE 20 AND TABLE 3ct OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60485-12

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

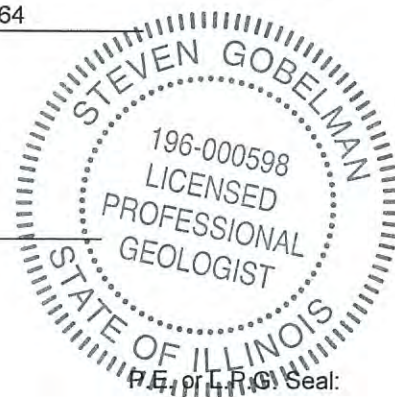
I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date: 11/13/14

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-60485-12
Client Project/Site: IDOT - Gougar - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/9/2013 4:57:24 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-12

Client Sample ID: 846D-115-B01

Lab Sample ID: 500-60485-41

Date Collected: 08/05/13 11:25

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 82.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Benzene	<0.0046		0.0046	0.00062	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Bromoform	<0.0046		0.0046	0.0010	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Chloroform	<0.0046		0.0046	0.00052	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Dibromochloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00075	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	08/05/13 11:25	08/10/13 05:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/05/13 11:25	08/10/13 05:19	1
Dibromofluoromethane	101		75 - 120	08/05/13 11:25	08/10/13 05:19	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/05/13 11:25	08/10/13 05:19	1
Toluene-d8 (Surr)	96		75 - 122	08/05/13 11:25	08/10/13 05:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-12

Client Sample ID: 846D-115-B01

Lab Sample ID: 500-60485-41

Date Collected: 08/05/13 11:25

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Fluoranthene	0.020	J	0.040	0.016	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Pyrene	0.021	J	0.040	0.015	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Benzo[a]anthracene	0.014	J	0.040	0.0084	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-12

Client Sample ID: 846D-115-B01

Lab Sample ID: 500-60485-41

Date Collected: 08/05/13 11:25

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.027	J	0.040	0.0091	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Benzo[b]fluoranthene	0.025	J	0.040	0.0078	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Benzo[k]fluoranthene	0.012	J	0.040	0.0096	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Benzo[a]pyrene	0.020	J	0.040	0.0073	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.040	0.014	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
Benzo[g,h,i]perylene	0.025	J	0.040	0.014	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	08/12/13 07:23	08/19/13 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		30 - 110	08/12/13 07:23	08/19/13 20:04	1
Phenol-d5	56		31 - 110	08/12/13 07:23	08/19/13 20:04	1
Nitrobenzene-d5	50		30 - 115	08/12/13 07:23	08/19/13 20:04	1
2-Fluorobiphenyl	58		30 - 119	08/12/13 07:23	08/19/13 20:04	1
2,4,6-Tribromophenol	64		35 - 137	08/12/13 07:23	08/19/13 20:04	1
Terphenyl-d14	65		36 - 134	08/12/13 07:23	08/19/13 20:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Arsenic	9.9		0.57	0.11	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Barium	120		0.57	0.061	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Beryllium	0.76		0.23	0.020	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Boron	5.9		2.8	0.12	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Cadmium	0.82		0.11	0.014	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Calcium	6500	B	11	3.1	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Chromium	17		0.57	0.066	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Cobalt	8.1		0.28	0.020	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Copper	37		0.57	0.050	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Iron	21000		11	4.7	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Lead	55	B	0.28	0.084	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Magnesium	3700	B	5.7	1.2	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Manganese	1000	B	5.7	0.31	mg/Kg	☼	08/07/13 15:00	08/19/13 21:29	10
Nickel	19	B	0.57	0.055	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Potassium	1700		28	1.7	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Selenium	0.85		0.57	0.20	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Silver	0.022	J	0.28	0.020	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Sodium	640		57	7.6	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Vanadium	24		0.28	0.042	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Zinc	100	B	1.1	0.23	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1
Aluminum	11000	B	11	1.0	mg/Kg	☼	08/07/13 15:00	08/17/13 22:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.29		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 22:10	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 22:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-12

Client Sample ID: 846D-115-B01

Lab Sample ID: 500-60485-41

Date Collected: 08/05/13 11:25

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.062		0.025	0.010	mg/L		08/29/13 10:00	09/07/13 22:10	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.82	B	0.50	0.010	mg/L		08/12/13 13:00	08/26/13 06:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 06:03	1
Boron	1.1	B	0.10	0.050	mg/L		08/12/13 13:00	08/26/13 06:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 06:03	1
Chromium	0.024	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:03	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:03	1
Iron	16		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 06:03	1
Lead	0.021		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 06:03	1
Manganese	0.21		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:03	1
Nickel	0.017	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:03	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 06:03	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:03	1
Zinc	0.55	B	0.10	0.020	mg/L		08/12/13 13:00	08/26/13 06:03	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:19	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000091	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 10:35	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057		0.019	0.0090	mg/Kg	☼	08/09/13 15:00	08/12/13 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.58		0.200	0.200	SU			08/17/13 11:26	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-12

Client Sample ID: 846D-115-B02

Lab Sample ID: 500-60485-42

Date Collected: 08/05/13 11:15

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 87.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	08/05/13 11:15	08/10/13 05:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	08/05/13 11:15	08/10/13 05:42	1
Dibromofluoromethane	107		75 - 120	08/05/13 11:15	08/10/13 05:42	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/05/13 11:15	08/10/13 05:42	1
Toluene-d8 (Surr)	94		75 - 122	08/05/13 11:15	08/10/13 05:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-12

Client Sample ID: 846D-115-B02

Lab Sample ID: 500-60485-42

Date Collected: 08/05/13 11:15

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 87.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Naphthalene	<0.035		0.035	0.0069	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Hexachlorocyclopentadiene	<0.72		0.72	0.16	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
3-Nitroaniline	<0.35		0.35	0.069	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Acenaphthylene	<0.035		0.035	0.0082	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Pentachlorophenol	<0.72	*	0.72	0.18	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
4,6-Dinitro-2-methylphenol	<0.35	*	0.35	0.086	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Anthracene	<0.035		0.035	0.0084	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Benzo[a]anthracene	<0.035		0.035	0.0075	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-12

Client Sample ID: 846D-115-B02

Lab Sample ID: 500-60485-42

Date Collected: 08/05/13 11:15

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 87.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Benzo[b]fluoranthene	<0.035		0.035	0.0069	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Benzo[k]fluoranthene	<0.035		0.035	0.0085	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Benzo[a]pyrene	<0.035		0.035	0.0065	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	08/13/13 19:23	08/18/13 23:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		30 - 110				08/13/13 19:23	08/18/13 23:10	1
Phenol-d5	52		31 - 110				08/13/13 19:23	08/18/13 23:10	1
Nitrobenzene-d5	55		30 - 115				08/13/13 19:23	08/18/13 23:10	1
2-Fluorobiphenyl	56		30 - 119				08/13/13 19:23	08/18/13 23:10	1
2,4,6-Tribromophenol	47		35 - 137				08/13/13 19:23	08/18/13 23:10	1
Terphenyl-d14	69		36 - 134				08/13/13 19:23	08/18/13 23:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Arsenic	10		0.56	0.11	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Barium	53		0.56	0.060	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Beryllium	0.64		0.23	0.020	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Boron	5.9		2.8	0.12	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Cadmium	0.64		0.11	0.014	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Calcium	30000	B	11	3.1	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Chromium	16		0.56	0.065	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Cobalt	13		0.28	0.020	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Copper	26		0.56	0.050	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Iron	22000		11	4.6	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Lead	17	B	0.28	0.084	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Magnesium	20000	B	5.6	1.2	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Manganese	510		0.56	0.031	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Nickel	30	B	0.56	0.055	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Potassium	1800		28	1.7	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Sodium	220		56	7.6	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Thallium	0.31	J	0.56	0.24	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Vanadium	19		0.28	0.042	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Zinc	51	B	1.1	0.23	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1
Aluminum	10000	B	11	1.0	mg/Kg	☼	08/07/13 15:00	08/17/13 23:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.86	B	0.50	0.010	mg/L		08/12/13 13:00	08/26/13 06:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 06:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-12

Client Sample ID: 846D-115-B02

Lab Sample ID: 500-60485-42

Date Collected: 08/05/13 11:15

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.4	B	0.10	0.050	mg/L		08/12/13 13:00	08/26/13 06:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 06:09	1
Chromium	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:09	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:09	1
Iron	4.8		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 06:09	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 06:09	1
Manganese	0.022	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:09	1
Nickel	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:09	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 06:09	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:09	1
Zinc	0.62	B	0.10	0.020	mg/L		08/12/13 13:00	08/26/13 06:09	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:20	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 10:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0086	mg/Kg	☼	08/09/13 15:00	08/12/13 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.20		0.200	0.200	SU			08/17/13 11:30	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-12

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS/MSD Recovery and/or RPD exceeds the control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com
Laboratory	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>US6/IL7 Willard + Cook Co</u> Project No.: <u>IDOT 2013 - 023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: <u>ASZ</u> Sampler: _____ COC No.: <u>2</u> of <u>2</u> Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/39</u> Matrix Key: _____	

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
15	846D-105-B06-a	8/5/13	3:40	S	X	X			X		X	X	X	X		7.5-15
16	846D-105-B07-1		2:25	S	X	X			X		X	X	X	X		0-7.5
17	846D-105-B07-1 DUP		2:40	S	X	X			X		X	X	X	X		0-7.5
18	846D-105-B07-a		2:30	S	X	X			X		X	X	X	X		7.5-15
19	846D-105-B08-1		1:20	S	X	X			X		X	X	X	X		0-7.5
20	846D-105-B08-a		1:30	S	X	X			X		X	X	X	X		7.5-15

Relinquished by: <u>John A. Wright (NET)</u>	Date/Time: <u>8/5/13 4:15</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/5/13 1655</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/5/13 1655</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/5/13 1655</u>
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12037 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60012 Longitude: -87.91150

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)

Latitude: 41.60012 Longitude: -87.91150

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-116-B01 THROUGH -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-116. SEE FIGURE 20 AND TABLE 3cu OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60485-13

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

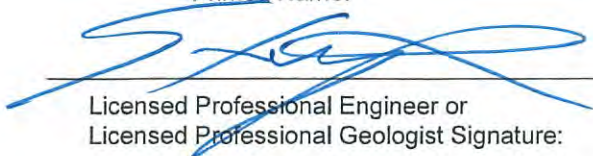
Street Address: 2300 South Dirksen Parkway

City: Springfield .State: IL Zip Code: 62764

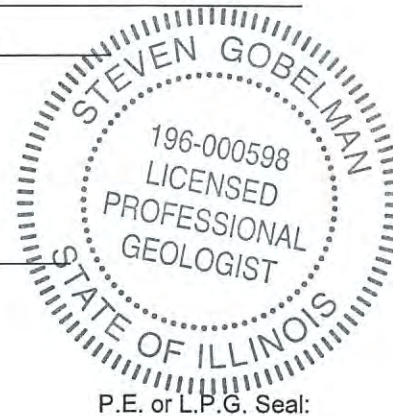
Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-116

Commercial Business

Sample ID	846D-116-B01	846D-116-B02	846D-116-B03									
Sample Depth (ft)	0-5	0-5	0-5									
Sample Date	8/5/2013	8/5/2013	8/5/2013									
PID	0	0	0									
Sample pH	8.57	8.19	7.93									
Matrix	Soil	Soil	Soil									
Inorganic Compounds, Total (mg/kg)	10	8.2	12	1.3	11.3	NA	11.3	11.3	NA	13	NA	NA
Arsenic												

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-60485-13

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/9/2013 4:59:35 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-13

Client Sample ID: 846D-116-B01

Lab Sample ID: 500-60485-43

Date Collected: 08/05/13 09:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.0044	0.0019	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	08/05/13 09:45	08/10/13 06:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	08/05/13 09:45	08/10/13 06:05	1
Dibromofluoromethane	105		75 - 120	08/05/13 09:45	08/10/13 06:05	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/05/13 09:45	08/10/13 06:05	1
Toluene-d8 (Surr)	93		75 - 122	08/05/13 09:45	08/10/13 06:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
1,3-Dichlorobenzene	<0.18	*	0.18	0.038	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-13

Client Sample ID: 846D-116-B01

Lab Sample ID: 500-60485-43

Date Collected: 08/05/13 09:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Naphthalene	<0.035		0.035	0.0069	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
3-Nitroaniline	<0.35		0.35	0.069	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Acenaphthylene	<0.035		0.035	0.0082	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.087	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Anthracene	<0.035		0.035	0.0084	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Pyrene	0.016	J	0.035	0.013	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Benzo[a]anthracene	0.015	J	0.035	0.0075	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-13

Client Sample ID: 846D-116-B01

Lab Sample ID: 500-60485-43

Date Collected: 08/05/13 09:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.035	0.0081	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Benzo[b]fluoranthene	0.017	J	0.035	0.0069	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Benzo[k]fluoranthene	0.0093	J	0.035	0.0085	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Benzo[a]pyrene	0.016	J	0.035	0.0065	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Dibenz(a,h)anthracene	<0.035		0.035	0.010	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	08/19/13 17:46	08/21/13 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	36		30 - 110				08/19/13 17:46	08/21/13 13:49	1
Phenol-d5	44		31 - 110				08/19/13 17:46	08/21/13 13:49	1
Nitrobenzene-d5	42		30 - 115				08/19/13 17:46	08/21/13 13:49	1
2-Fluorobiphenyl	52		30 - 119				08/19/13 17:46	08/21/13 13:49	1
2,4,6-Tribromophenol	54		35 - 137				08/19/13 17:46	08/21/13 13:49	1
Terphenyl-d14	69		36 - 134				08/19/13 17:46	08/21/13 13:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Arsenic	10		0.56	0.11	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Barium	61		0.56	0.060	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Beryllium	0.67		0.23	0.020	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Boron	6.1		2.8	0.12	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Cadmium	0.72		0.11	0.014	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Calcium	32000	B	11	3.0	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Chromium	16		0.56	0.065	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Cobalt	11		0.28	0.020	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Copper	25		0.56	0.050	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Iron	23000		11	4.6	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Lead	17	B	0.28	0.084	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Magnesium	20000	B	5.6	1.2	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Manganese	450		0.56	0.031	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Nickel	27	B	0.56	0.055	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Potassium	1800		28	1.7	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Sodium	360		56	7.5	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Vanadium	20		0.28	0.042	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Zinc	51	B	1.1	0.23	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1
Aluminum	11000	B	11	1.0	mg/Kg	☼	08/07/13 15:00	08/17/13 23:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 22:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-13

Client Sample ID: 846D-116-B01

Lab Sample ID: 500-60485-43

Date Collected: 08/05/13 09:45

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.90	B	0.50	0.010	mg/L		08/12/13 13:00	08/26/13 06:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 06:15	1
Boron	1.4	B	0.10	0.050	mg/L		08/12/13 13:00	08/26/13 06:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 06:15	1
Chromium	0.013	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:15	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:15	1
Iron	8.7		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 06:15	1
Lead	0.0060	J	0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 06:15	1
Manganese	0.042		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:15	1
Nickel	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:15	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 06:15	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:15	1
Zinc	0.63	B	0.10	0.020	mg/L		08/12/13 13:00	08/26/13 06:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:21	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000028	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 10:43	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0088	mg/Kg	✱	08/09/13 15:00	08/12/13 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.57		0.200	0.200	SU			08/17/13 11:33	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-13

Client Sample ID: 846D-116-B02

Lab Sample ID: 500-60485-44

Date Collected: 08/05/13 09:40

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0020	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	08/05/13 09:40	08/10/13 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	08/05/13 09:40	08/10/13 06:27	1
Dibromofluoromethane	105		75 - 120	08/05/13 09:40	08/10/13 06:27	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/05/13 09:40	08/10/13 06:27	1
Toluene-d8 (Surr)	92		75 - 122	08/05/13 09:40	08/10/13 06:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-13

Client Sample ID: 846D-116-B02

Lab Sample ID: 500-60485-44

Date Collected: 08/05/13 09:40

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Hexachlorobenzene	<0.075		0.075	0.0074	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Pentachlorophenol	<0.75	*	0.75	0.19	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
4,6-Dinitro-2-methylphenol	<0.37	*	0.37	0.091	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-13

Client Sample ID: 846D-116-B02

Lab Sample ID: 500-60485-44

Date Collected: 08/05/13 09:40

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/13/13 19:23	08/18/13 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	41		30 - 110				08/13/13 19:23	08/18/13 23:44	1
Phenol-d5	41		31 - 110				08/13/13 19:23	08/18/13 23:44	1
Nitrobenzene-d5	42		30 - 115				08/13/13 19:23	08/18/13 23:44	1
2-Fluorobiphenyl	43		30 - 119				08/13/13 19:23	08/18/13 23:44	1
2,4,6-Tribromophenol	27 X		35 - 137				08/13/13 19:23	08/18/13 23:44	1
Terphenyl-d14	58		36 - 134				08/13/13 19:23	08/18/13 23:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Arsenic	8.2		0.55	0.11	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Barium	28		0.55	0.059	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Beryllium	0.57		0.22	0.019	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Boron	8.0		2.7	0.12	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Cadmium	0.64		0.11	0.014	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Calcium	40000 B		11	3.0	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Chromium	16		0.55	0.064	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Cobalt	9.2		0.27	0.020	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Copper	25		0.55	0.049	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Iron	20000		11	4.5	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Lead	14 B		0.27	0.082	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Magnesium	25000 B		5.5	1.1	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Manganese	360		0.55	0.030	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Nickel	25 B		0.55	0.054	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Potassium	2200		27	1.7	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Sodium	150		55	7.4	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Thallium	0.39 J		0.55	0.23	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Vanadium	17		0.27	0.041	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Zinc	49 B		1.1	0.22	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1
Aluminum	9100 B		11	1.0	mg/Kg	☼	08/07/13 15:00	08/17/13 23:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/29/13 10:00	09/07/13 22:22	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	09/07/13 22:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-13

Client Sample ID: 846D-116-B02

Lab Sample ID: 500-60485-44

Date Collected: 08/05/13 09:40

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.97	B	0.50	0.010	mg/L		08/12/13 13:00	08/26/13 06:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 06:22	1
Boron	1.6	B	0.10	0.050	mg/L		08/12/13 13:00	08/26/13 06:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 06:22	1
Chromium	0.026		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:22	1
Cobalt	0.0068	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:22	1
Iron	26		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 06:22	1
Lead	0.015		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 06:22	1
Manganese	0.13		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:22	1
Nickel	0.029		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:22	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 06:22	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:22	1
Zinc	0.76	B	0.10	0.020	mg/L		08/12/13 13:00	08/26/13 06:22	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:23	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000074	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 10:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0083	mg/Kg	☆	08/09/13 15:00	08/12/13 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU			08/17/13 11:37	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-13

Client Sample ID: 846D-116-B03

Lab Sample ID: 500-60485-45

Date Collected: 08/05/13 09:10

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 78.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011		0.0047	0.0020	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	08/05/13 09:10	08/10/13 06:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	08/05/13 09:10	08/10/13 06:50	1
Dibromofluoromethane	105		75 - 120	08/05/13 09:10	08/10/13 06:50	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	08/05/13 09:10	08/10/13 06:50	1
Toluene-d8 (Surr)	91		75 - 122	08/05/13 09:10	08/10/13 06:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.066	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
1,3-Dichlorobenzene	<0.21	*	0.21	0.044	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-13

Client Sample ID: 846D-116-B03

Lab Sample ID: 500-60485-45

Date Collected: 08/05/13 09:10

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 78.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Acenaphthylene	<0.041		0.041	0.0096	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
4-Nitrophenol	<0.84		0.84	0.22	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Fluorene	<0.041		0.041	0.0095	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Phenanthrene	0.026	J	0.041	0.017	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Anthracene	<0.041		0.041	0.0098	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Pyrene	0.024	J	0.041	0.015	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Benzo[a]anthracene	0.016	J	0.041	0.0087	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-13

Client Sample ID: 846D-116-B03

Lab Sample ID: 500-60485-45

Date Collected: 08/05/13 09:10

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 78.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.021	J	0.041	0.0094	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Di-n-octyl phthalate	0.12	J	0.21	0.084	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Benzo[b]fluoranthene	0.018	J	0.041	0.0081	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Benzo[k]fluoranthene	<0.041		0.041	0.0099	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Benzo[a]pyrene	0.016	J	0.041	0.0076	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1
3 & 4 Methylphenol	<0.21		0.21	0.079	mg/Kg	☼	08/19/13 17:46	08/21/13 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	19	X	30 - 110	08/19/13 17:46	08/21/13 14:07	1
Phenol-d5	27	X	31 - 110	08/19/13 17:46	08/21/13 14:07	1
Nitrobenzene-d5	21	X	30 - 115	08/19/13 17:46	08/21/13 14:07	1
2-Fluorobiphenyl	31		30 - 119	08/19/13 17:46	08/21/13 14:07	1
2,4,6-Tribromophenol	46		35 - 137	08/19/13 17:46	08/21/13 14:07	1
Terphenyl-d14	66		36 - 134	08/19/13 17:46	08/21/13 14:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.51	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Arsenic	12		0.63	0.13	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Barium	48		0.63	0.068	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Beryllium	0.68		0.25	0.022	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Boron	6.6		3.2	0.13	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Cadmium	0.64		0.13	0.016	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Calcium	15000	B	13	3.4	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Chromium	18		0.63	0.073	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Cobalt	13		0.32	0.023	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Copper	31		0.63	0.056	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Iron	26000		13	5.2	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Lead	17	B	0.32	0.094	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Magnesium	11000	B	6.3	1.3	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Manganese	360		0.63	0.034	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Nickel	33	B	0.63	0.062	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Potassium	1900		32	1.9	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Selenium	<0.63		0.63	0.22	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Sodium	470		63	8.5	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Thallium	0.52	J	0.63	0.27	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Vanadium	20		0.32	0.047	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Zinc	73	B	1.3	0.26	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1
Aluminum	10000	B	13	1.2	mg/Kg	☼	08/07/13 15:00	08/17/13 23:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/29/13 10:00	08/30/13 17:49	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	08/30/13 17:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-13

Client Sample ID: 846D-116-B03

Lab Sample ID: 500-60485-45

Date Collected: 08/05/13 09:10

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	5.0		0.025	0.010	mg/L		08/29/13 10:00	08/30/13 17:49	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2	B	0.50	0.010	mg/L		08/12/13 13:00	08/26/13 06:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 06:28	1
Boron	1.3	B	0.10	0.050	mg/L		08/12/13 13:00	08/26/13 06:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 06:28	1
Chromium	0.065		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:28	1
Cobalt	0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:28	1
Iron	67		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 06:28	1
Lead	0.043		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 06:28	1
Manganese	1.1		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:28	1
Nickel	0.060		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:28	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 06:28	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:28	1
Zinc	0.76	B	0.10	0.020	mg/L		08/12/13 13:00	08/26/13 06:28	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:24	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00010	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 10:47	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.020	0.0092	mg/Kg	☼	08/09/13 15:00	08/12/13 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.93		0.200	0.200	SU			08/17/13 11:40	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-13

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US6/IL7WileyCook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: AEZ	COC No.: 1 of 2 Lab Job No.: 500-60485 Sample Temp: 38.463.5373.9 Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other								
SPECIAL INSTRUCTIONS: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.											
ANALYSES											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	7.5-15
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X								



CHAIN OF CUSTODY RECORD

Client Contact	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com
Laboratory	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>US6/IL7 Wild + Cook Co</u> Project No.: <u>IDOT 2013 - 023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: <u>ASZ</u> Sampler: _____	
COC No.: <u>2</u> of <u>2</u> Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/39</u> Matrix Key: _____	

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCs	SVOCs	BETX & MTBE	PNA's	Pesticides	PCBS	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization	
15	846D-105-B06-a	8/5/13	3:40	S	X	X				X	X	X	X	X	X		7.5-15
16	846D-105-B07-1		2:25	S	X	X				X	X	X	X	X	X		0-7.5
17	846D-105-B07-1 DUP		2:40	S	X	X				X	X	X	X	X	X		0-7.5
18	846D-105-B07-a		2:30	S	X	X				X	X	X	X	X	X		7.5-15
19	846D-105-B08-1		1:20	S	X	X				X	X	X	X	X	X		0-7.5
20	846D-105-B08-a		1:30	S	X	X				X	X	X	X	X	X		7.5-15

Relinquished by: <u>John A. Wright (NET)</u>	Date/Time: <u>8/5/13 4:15</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8-5-13/1608</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/5/13 1655</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/13/1655</u>
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7 Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____ COC No.: _____ of _____ Lab Job No.: _____ Sample Temp: <u>500-60485</u> Matrix Key: <u>3846353739</u>	W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other Comments													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
26	846D-108-B01	8/5	11:05	S	X	X					X	X	X	X		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Relinquished by: </p> <p>Relinquished by: </p> <p>Relinquished by: </p> </div> <div style="width: 30%;"> <p>Date/Time: <u>8/5/13 7:00</u></p> <p>Date/Time: <u>8/5/13 1055</u></p> <p>Date/Time: _____</p> </div> <div style="width: 30%;"> <p>Received by: </p> <p>Received by: </p> <p>Received by: _____</p> </div> </div>																



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____	COC No.: _____ of _____ Lab Job No.: <u>500-60485</u> Sample Temp: <u>3841.3537.39</u> Matrix Key: _____ W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
SPECIAL INSTRUCTIONS: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
46	846D-117-B01	8/5	9:30	S	X	X					X	X	X	X		
47	846D-117-B02	↓	9:25	S	X	X					X	X	X	X		
48	846D-117-B03	↓	9:20	S	X	X					X	X	X	X		
49	846D-117-B04	↓	9:10	S	X	X					X	X	X	X		
Relinquished by: _____ Date/Time: <u>8/5/13 4:00</u> Received by: _____ Date/Time: <u>8/5/13 1655</u>																
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____																
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____																



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7WilderCook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEZ</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/37.3/9</u> Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
53	846D-119-B01	8/5/13	9:30	S	X	X			X		X	X	X	X		0-6'
54	846D-119-B02	8/5/13	9:50	S	X	X			X		X	X	X	X		0-6'
55	846D-119-B03	8/5/13	10:10	S	X	X			X		X	X	X	X		0-6'
					Date/Time	4:15										
Relinquished by: <u>Kim Adams (AEZ)</u>					Date/Time	8/5/13	Received by: <u>[Signature]</u>									
Relinquished by: <u>[Signature]</u>					Date/Time	8/5/13	Received by: <u>[Signature]</u>									
Relinquished by: <u>[Signature]</u>					Date/Time	8/5/13	Received by: <u>[Signature]</u>									



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

12007 159th Street

City: Homer Glen State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60001 Longitude: -87.91059

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 1970500025 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)
Latitude: 41.60001 Longitude: -87.91059

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 846D-117-B01 THROUGH -B04 WERE SAMPLED ADJACENT TO SITE NO. 846D-117. SEE FIGURE 20 AND TABLE 3cv OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60485-14

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

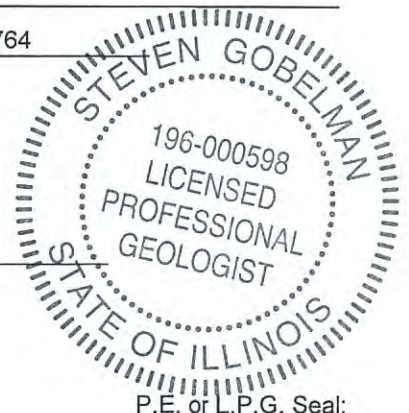
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/13/14

Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-117
Speedway

Sample ID	846D-117-B01	846D-117-B02	846D-117-B03	846D-117-B04								
Sample Depth (ft)	0-5	0-5	0-5	0-5								
Sample Date	8/5/2013	8/5/2013	8/5/2013	8/5/2013								
PID	0	0	0	0								
Sample pH	7.78	8.95	7.97	8.25								
Matrix	Soil	Soil	Soil	Soil								
Inorganic Compounds, Total (mg/kg)												
Arsenic	11	12	10	9.6	11.3	NA	11.3	NA	13	NA	13	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-60485-14
Client Project/Site: IDOT - Gougar - WO 023

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
9/9/2013 5:00:19 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B01

Lab Sample ID: 500-60485-46

Date Collected: 08/05/13 09:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 83.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.023		0.0047	0.0020	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	08/05/13 09:30	08/10/13 07:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/05/13 09:30	08/10/13 07:13	1
Dibromofluoromethane	103		75 - 120	08/05/13 09:30	08/10/13 07:13	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/05/13 09:30	08/10/13 07:13	1
Toluene-d8 (Surr)	89		75 - 122	08/05/13 09:30	08/10/13 07:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B01

Lab Sample ID: 500-60485-46

Date Collected: 08/05/13 09:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Naphthalene	<0.039		0.039	0.0077	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Pentachlorophenol	<0.80	*	0.80	0.20	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
4,6-Dinitro-2-methylphenol	<0.39	*	0.39	0.096	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B01

Lab Sample ID: 500-60485-46

Date Collected: 08/05/13 09:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0090	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Benzo[k]fluoranthene	<0.039		0.039	0.0095	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	08/13/13 19:23	08/19/13 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	38		30 - 110				08/13/13 19:23	08/19/13 00:18	1
Phenol-d5	38		31 - 110				08/13/13 19:23	08/19/13 00:18	1
Nitrobenzene-d5	31		30 - 115				08/13/13 19:23	08/19/13 00:18	1
2-Fluorobiphenyl	33		30 - 119				08/13/13 19:23	08/19/13 00:18	1
2,4,6-Tribromophenol	22	X	35 - 137				08/13/13 19:23	08/19/13 00:18	1
Terphenyl-d14	66		36 - 134				08/13/13 19:23	08/19/13 00:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Arsenic	11		0.55	0.11	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Barium	68		0.55	0.058	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Beryllium	0.88		0.22	0.019	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Boron	4.4		2.7	0.11	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Cadmium	0.50		0.11	0.014	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Calcium	2700	B	11	3.0	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Chromium	22		0.55	0.063	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Cobalt	12		0.27	0.019	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Copper	38		0.55	0.048	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Iron	32000		11	4.5	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Lead	19	B	0.27	0.081	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Magnesium	5100	B	5.5	1.1	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Manganese	490		0.55	0.030	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Nickel	36	B	0.55	0.054	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Potassium	1700		27	1.6	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Selenium	0.21	J	0.55	0.19	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Sodium	410		55	7.3	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Thallium	0.44	J	0.55	0.23	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Vanadium	25		0.27	0.040	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Zinc	73	B	1.1	0.22	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1
Aluminum	14000	B	11	1.0	mg/Kg	☼	08/07/13 15:00	08/17/13 23:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.32		0.20	0.20	mg/L		08/29/13 10:00	08/30/13 18:09	1
Lead	0.0055	J	0.0075	0.0050	mg/L		08/29/13 10:00	08/30/13 18:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B01

Lab Sample ID: 500-60485-46

Date Collected: 08/05/13 09:30

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.2		0.025	0.010	mg/L		08/29/13 10:00	08/30/13 18:09	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	B	0.50	0.010	mg/L		08/12/13 13:00	08/26/13 06:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 06:34	1
Boron	1.6	B	0.10	0.050	mg/L		08/12/13 13:00	08/26/13 06:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 06:34	1
Chromium	0.022	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:34	1
Cobalt	0.0068	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:34	1
Iron	19		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 06:34	1
Lead	0.011		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 06:34	1
Manganese	0.26		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:34	1
Nickel	0.021	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:34	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 06:34	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:34	1
Zinc	0.74	B	0.10	0.020	mg/L		08/12/13 13:00	08/26/13 06:34	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:25	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000037	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 10:53	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0089	mg/Kg	☼	08/09/13 15:00	08/12/13 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.78		0.200	0.200	SU			08/17/13 11:44	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B02

Lab Sample ID: 500-60485-47

Date Collected: 08/05/13 09:25

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.021		0.0046	0.0020	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	08/05/13 09:25	08/10/13 07:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	08/05/13 09:25	08/10/13 07:36	1
Dibromofluoromethane	102		75 - 120	08/05/13 09:25	08/10/13 07:36	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/05/13 09:25	08/10/13 07:36	1
Toluene-d8 (Surr)	94		75 - 122	08/05/13 09:25	08/10/13 07:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
1,3-Dichlorobenzene	<0.20	*	0.20	0.042	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B02

Lab Sample ID: 500-60485-47

Date Collected: 08/05/13 09:25

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 81.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Acenaphthene	0.040		0.040	0.012	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Fluorene	0.017 J		0.040	0.0091	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Phenanthrene	0.029 J		0.040	0.017	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Anthracene	0.012 J		0.040	0.0094	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Pyrene	0.019 J		0.040	0.014	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Benzo[a]anthracene	0.014 J		0.040	0.0084	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B02

Lab Sample ID: 500-60485-47

Date Collected: 08/05/13 09:25

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 81.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.040	0.0090	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Di-n-octyl phthalate	0.12	J	0.20	0.081	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Benzo[b]fluoranthene	0.011	J	0.040	0.0078	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Benzo[k]fluoranthene	0.0095	J	0.040	0.0095	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Benzo[a]pyrene	0.013	J	0.040	0.0073	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	08/19/13 17:46	08/21/13 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	24	X	30 - 110	08/19/13 17:46	08/21/13 14:26	1
Phenol-d5	28	X	31 - 110	08/19/13 17:46	08/21/13 14:26	1
Nitrobenzene-d5	30		30 - 115	08/19/13 17:46	08/21/13 14:26	1
2-Fluorobiphenyl	38		30 - 119	08/19/13 17:46	08/21/13 14:26	1
2,4,6-Tribromophenol	36		35 - 137	08/19/13 17:46	08/21/13 14:26	1
Terphenyl-d14	58		36 - 134	08/19/13 17:46	08/21/13 14:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Arsenic	12		0.57	0.11	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Barium	52		0.57	0.061	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Beryllium	0.69		0.23	0.020	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Boron	2.5	J	2.8	0.12	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Cadmium	0.30		0.11	0.014	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Calcium	1800	B	11	3.1	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Chromium	18		0.57	0.066	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Cobalt	12		0.28	0.020	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Copper	26		0.57	0.050	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Iron	27000		11	4.7	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Lead	26	B	0.28	0.085	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Magnesium	3300	B	5.7	1.2	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Manganese	260		0.57	0.031	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Nickel	25	B	0.57	0.056	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Potassium	1200		28	1.7	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Selenium	0.48	J	0.57	0.20	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Sodium	750		57	7.6	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Thallium	0.51	J	0.57	0.24	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Vanadium	26		0.28	0.042	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Zinc	50	B	1.1	0.23	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1
Aluminum	13000	B	11	1.0	mg/Kg	☼	08/07/13 15:00	08/17/13 23:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/29/13 10:00	08/30/13 18:14	1
Chromium	<0.025		0.025	0.010	mg/L		08/29/13 10:00	08/30/13 18:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B02

Lab Sample ID: 500-60485-47

Date Collected: 08/05/13 09:25

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.58		0.20	0.20	mg/L		08/29/13 10:00	08/30/13 18:14	1
Lead	0.011		0.0075	0.0050	mg/L		08/29/13 10:00	08/30/13 18:14	1
Manganese	3.6		0.025	0.010	mg/L		08/29/13 10:00	08/30/13 18:14	1
Nickel	0.037		0.025	0.010	mg/L		08/29/13 10:00	08/30/13 18:14	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.6	B	0.50	0.010	mg/L		08/12/13 13:00	08/26/13 06:40	1
Beryllium	0.011		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 06:40	1
Boron	1.2	B	0.10	0.050	mg/L		08/12/13 13:00	08/26/13 06:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 06:40	1
Chromium	0.22		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:40	1
Cobalt	0.091		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:40	1
Iron	290		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 06:40	1
Lead	0.20		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 06:40	1
Manganese	1.8		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:40	1
Nickel	0.32		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:40	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 06:40	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:40	1
Zinc	1.1	B	0.10	0.020	mg/L		08/12/13 13:00	08/26/13 06:40	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/29/13 10:00	09/04/13 17:48	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:26	1
Thallium	0.0041		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:26	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00073		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 10:55	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.020	0.0095	mg/Kg	☼	08/09/13 15:00	08/12/13 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.95		0.200	0.200	SU			08/17/13 11:47	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B03

Lab Sample ID: 500-60485-48

Date Collected: 08/05/13 09:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 81.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Chloroform	<0.0048		0.0048	0.00056	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Ethylbenzene	<0.0048		0.0048	0.00098	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Toluene	<0.0048		0.0048	0.00068	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00087	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	08/05/13 09:20	08/10/13 07:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	08/05/13 09:20	08/10/13 07:59	1
Dibromofluoromethane	108		75 - 120	08/05/13 09:20	08/10/13 07:59	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	08/05/13 09:20	08/10/13 07:59	1
Toluene-d8 (Surr)	95		75 - 122	08/05/13 09:20	08/10/13 07:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B03

Lab Sample ID: 500-60485-48

Date Collected: 08/05/13 09:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 81.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Pentachlorophenol	<0.81	*	0.81	0.20	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
4,6-Dinitro-2-methylphenol	<0.40	*	0.40	0.097	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Fluoranthene	0.040		0.040	0.016	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Pyrene	0.046		0.040	0.014	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Benzo[a]anthracene	0.027	J	0.040	0.0084	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B03

Lab Sample ID: 500-60485-48

Date Collected: 08/05/13 09:20

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 81.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.031	J	0.040	0.0090	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Benzo[b]fluoranthene	0.039	J	0.040	0.0078	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Benzo[k]fluoranthene	0.015	J	0.040	0.0095	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Benzo[a]pyrene	0.029	J	0.040	0.0073	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Indeno[1,2,3-cd]pyrene	0.019	J	0.040	0.013	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
Benzo[g,h,i]perylene	0.026	J	0.040	0.013	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	08/13/13 19:23	08/19/13 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	29	X	30 - 110	08/13/13 19:23	08/19/13 00:53	1
Phenol-d5	35		31 - 110	08/13/13 19:23	08/19/13 00:53	1
Nitrobenzene-d5	28	X	30 - 115	08/13/13 19:23	08/19/13 00:53	1
2-Fluorobiphenyl	35		30 - 119	08/13/13 19:23	08/19/13 00:53	1
2,4,6-Tribromophenol	36		35 - 137	08/13/13 19:23	08/19/13 00:53	1
Terphenyl-d14	54		36 - 134	08/13/13 19:23	08/19/13 00:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Arsenic	10		0.58	0.12	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Barium	37		0.58	0.062	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Beryllium	0.58		0.23	0.021	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Boron	2.3	J	2.9	0.12	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Cadmium	0.20		0.12	0.015	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Calcium	4300	B	12	3.2	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Chromium	15		0.58	0.067	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Cobalt	11		0.29	0.021	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Copper	22		0.58	0.052	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Iron	21000		12	4.8	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Lead	19	B	0.29	0.087	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Magnesium	4200	B	5.8	1.2	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Manganese	360		0.58	0.032	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Nickel	18	B	0.58	0.057	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Potassium	980		29	1.8	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Selenium	0.54	J	0.58	0.21	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Sodium	170		58	7.8	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Thallium	<0.58		0.58	0.25	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Vanadium	21		0.29	0.043	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Zinc	38	B	1.2	0.24	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1
Aluminum	9800	B	12	1.1	mg/Kg	☼	08/07/13 15:00	08/17/13 23:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/29/13 10:00	08/30/13 18:19	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	08/30/13 18:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B03

Lab Sample ID: 500-60485-48

Date Collected: 08/05/13 09:20

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.56		0.025	0.010	mg/L		08/29/13 10:00	08/30/13 18:19	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	B	0.50	0.010	mg/L		08/12/13 13:00	08/26/13 06:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 06:47	1
Boron	1.4	B	0.10	0.050	mg/L		08/12/13 13:00	08/26/13 06:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 06:47	1
Chromium	0.021	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:47	1
Cobalt	0.0069	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:47	1
Iron	21		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 06:47	1
Lead	0.028		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 06:47	1
Manganese	0.19		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:47	1
Nickel	0.020	J	0.025	0.010	mg/L		08/12/13 13:00	08/26/13 06:47	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 06:47	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 06:47	1
Zinc	0.68	B	0.10	0.020	mg/L		08/12/13 13:00	08/26/13 06:47	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:27	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 10:57	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0091	mg/Kg	☼	08/09/13 15:00	08/12/13 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.97		0.200	0.200	SU			08/17/13 11:51	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B04

Lab Sample ID: 500-60485-49

Date Collected: 08/05/13 09:10

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 83.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1
Xylenes, Total	<0.0092		0.0092	0.00041	mg/Kg	☼	08/05/13 09:10	08/10/13 08:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	08/05/13 09:10	08/10/13 08:22	1
Dibromofluoromethane	103		75 - 120	08/05/13 09:10	08/10/13 08:22	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/05/13 09:10	08/10/13 08:22	1
Toluene-d8 (Surr)	94		75 - 122	08/05/13 09:10	08/10/13 08:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B04

Lab Sample ID: 500-60485-49

Date Collected: 08/05/13 09:10

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Pentachlorophenol	<0.76	*	0.76	0.19	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
4,6-Dinitro-2-methylphenol	<0.38	*	0.38	0.092	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Benzo[a]anthracene	0.0086	J	0.038	0.0079	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B04

Lab Sample ID: 500-60485-49

Date Collected: 08/05/13 09:10

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.038	0.0086	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Benzo[b]fluoranthene	0.016	J	0.038	0.0074	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Benzo[a]pyrene	0.014	J	0.038	0.0069	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Benzo[g,h,i]perylene	0.017	J	0.038	0.013	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/13/13 19:23	08/19/13 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	34		30 - 110				08/13/13 19:23	08/19/13 18:37	1
Phenol-d5	35		31 - 110				08/13/13 19:23	08/19/13 18:37	1
Nitrobenzene-d5	32		30 - 115				08/13/13 19:23	08/19/13 18:37	1
2-Fluorobiphenyl	34		30 - 119				08/13/13 19:23	08/19/13 18:37	1
2,4,6-Tribromophenol	39		35 - 137				08/13/13 19:23	08/19/13 18:37	1
Terphenyl-d14	49		36 - 134				08/13/13 19:23	08/19/13 18:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Arsenic	9.6		0.60	0.12	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Barium	57		0.60	0.064	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Beryllium	0.67		0.24	0.021	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Boron	5.2		3.0	0.13	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Cadmium	0.52		0.12	0.015	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Calcium	23000	B	12	3.2	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Chromium	16		0.60	0.069	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Cobalt	12		0.30	0.021	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Copper	24		0.60	0.053	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Iron	22000		12	4.9	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Lead	18	B	0.30	0.089	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Magnesium	13000	B	6.0	1.2	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Manganese	450		0.60	0.032	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Nickel	26	B	0.60	0.058	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Potassium	1600		30	1.8	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Sodium	120		60	8.0	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Thallium	<0.60		0.60	0.25	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Vanadium	20		0.30	0.044	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Zinc	55	B	1.2	0.24	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1
Aluminum	10000	B	12	1.1	mg/Kg	☼	08/07/13 15:00	08/18/13 00:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/29/13 10:00	08/30/13 18:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/29/13 10:00	08/30/13 18:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Client Sample ID: 846D-117-B04

Lab Sample ID: 500-60485-49

Date Collected: 08/05/13 09:10

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.065		0.025	0.010	mg/L		08/29/13 10:00	08/30/13 18:32	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1	B	0.50	0.010	mg/L		08/12/13 13:00	08/26/13 07:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 07:08	1
Boron	1.3	B	0.10	0.050	mg/L		08/12/13 13:00	08/26/13 07:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 07:08	1
Chromium	0.064		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 07:08	1
Cobalt	0.020	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 07:08	1
Iron	72		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 07:08	1
Lead	0.045		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 07:08	1
Manganese	0.38		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 07:08	1
Nickel	0.074		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 07:08	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 07:08	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 07:08	1
Zinc	0.77	B	0.10	0.020	mg/L		08/12/13 13:00	08/26/13 07:08	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:31	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J	0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 10:59	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0086	mg/Kg	☼	08/09/13 15:00	08/12/13 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.25		0.200	0.200	SU			08/17/13 11:54	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-14

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard_wright@testamericainc.com	Project Name: US6/IL7Wilson & Cook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: _____ of _____ Lab Job No.: 500-60485 Sample Temp: 38.4/35.3/3.9 Matrix Key:																																																																																
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES																																																																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> </tr> </thead> <tbody> <tr> <td>46</td> <td>846D-117-B01</td> <td>8/5</td> <td>9:30</td> <td>S</td> </tr> <tr> <td>47</td> <td>846D-117-B02</td> <td></td> <td>9:25</td> <td>S</td> </tr> <tr> <td>48</td> <td>846D-117-B03</td> <td></td> <td>9:20</td> <td>S</td> </tr> <tr> <td>49</td> <td>846D-117-B04</td> <td></td> <td>9:10</td> <td>S</td> </tr> </tbody> </table>	Lab ID	Sample ID	Sample Date	Sample Time	Matrix	46	846D-117-B01	8/5	9:30	S	47	846D-117-B02		9:25	S	48	846D-117-B03		9:20	S	49	846D-117-B04		9:10	S	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Waste Characterization</th> <th>% Solids</th> <th>pH</th> <th>SPLP/** TCLP Metals</th> <th>* Total Metals</th> <th>PCBs</th> <th>Pesticides</th> <th>PNAs</th> <th>BETX & MTBE</th> <th>SVOCs</th> <th>VOCs</th> </tr> </thead> <tbody> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> </tbody> </table>			Waste Characterization	% Solids	pH	SPLP/** TCLP Metals	* Total Metals	PCBs	Pesticides	PNAs	BETX & MTBE	SVOCs	VOCs		X	X	X	X					X	X		X	X	X	X					X	X		X	X	X	X					X	X		X	X	X	X					X	X
Lab ID	Sample ID	Sample Date	Sample Time	Matrix																																																																															
46	846D-117-B01	8/5	9:30	S																																																																															
47	846D-117-B02		9:25	S																																																																															
48	846D-117-B03		9:20	S																																																																															
49	846D-117-B04		9:10	S																																																																															
Waste Characterization	% Solids	pH	SPLP/** TCLP Metals	* Total Metals	PCBs	Pesticides	PNAs	BETX & MTBE	SVOCs	VOCs																																																																									
	X	X	X	X					X	X																																																																									
	X	X	X	X					X	X																																																																									
	X	X	X	X					X	X																																																																									
	X	X	X	X					X	X																																																																									
Comments		Waste Characterization																																																																																	
W: Water S: Soil SL: Sludge L: Sediment DW: Drinking Water OL: Oil O: Other		Received by: <i>[Signature]</i> Date/Time: 8/5/13 4:00																																																																																	
Received by: <i>[Signature]</i> Date/Time: 8/5/13 1655		Received by: <i>[Signature]</i> Date/Time: 8/5/13 1655																																																																																	
Relinquished by: <i>[Signature]</i> Date/Time: 8/5/13 1655		Relinquished by: <i>[Signature]</i> Date/Time: 8/5/13 1655																																																																																	



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US6/IL7WileyCook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: AEZ	COC No.: 1 of 2 Lab Job No.: 500-60485 Sample Temp: 38.463.5373.9 Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other								
SPECIAL INSTRUCTIONS: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.											
ANALYSES											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	7.5-15
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X								



CHAIN OF CUSTODY RECORD

Client Contact	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com
Laboratory	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>US6/IL7 Wild + Cook Co</u> Project No.: <u>IDOT 2013 - 023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: <u>ASZ</u> Sampler: _____	
COC No.: <u>2</u> of <u>2</u> Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/39</u> Matrix Key: _____	

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
15	846D-105-B06-a	8/5/13	3:40	S	X	X			X		X	X	X	X		7.5-15
16	846D-105-B07-1		2:25	S	X	X			X		X	X	X	X		0-7.5
17	846D-105-B07-1 DUP		2:40	S	X	X			X		X	X	X	X		0-7.5
18	846D-105-B07-a		2:30	S	X	X			X		X	X	X	X		7.5-15
19	846D-105-B08-1		1:20	S	X	X			X		X	X	X	X		0-7.5
20	846D-105-B08-a		1:30	S	X	X			X		X	X	X	X		7.5-15

Relinquished by: <u>John A. Wright (NET)</u>	Date/Time: <u>8/5/13 4:15</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8-5-13/1608</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/5/13 1655</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/5/13 1655</u>
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7WilderCook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AEZ</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/37.3/9</u> Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other														
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES															
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments	
53	846D-119-B01	8/5/13	9:30	S	X	X			X		X	X	X	X		0-6'	
54	846D-119-B02	8/5/13	9:50	S	X	X			X		X	X	X	X		0-6'	
55	846D-119-B03	8/5/13	10:10	S	X	X			X		X	X	X	X		0-6'	
					Date/Time	4:15											
Relinquished by: <u>Kim Adams (AEZ)</u>					Date/Time	8/5/13											
Relinquished by: <u>[Signature]</u>					Date/Time	8/5/13	1655										
Relinquished by: <u>[Signature]</u>					Date/Time	8/5/13	1655										
					Date/Time	8/5/13	4:15										
Received by: <u>[Signature]</u>					Date/Time	8/5/13	1655										
Received by: <u>[Signature]</u>					Date/Time	8/5/13	1655										
Received by: <u>[Signature]</u>					Date/Time	8/5/13	1655										



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Approximately 11586 to 12000 159th Street

City: Orland Park State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60041 Longitude: -87.91007

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)
 Latitude: 41.60041 Longitude: -87.91007

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 846D-118-B01 WAS SAMPLED ADJACENT TO SITE NO. 846D-118. SEE FIGURES 20 & 21, AND TABLE 3cw OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

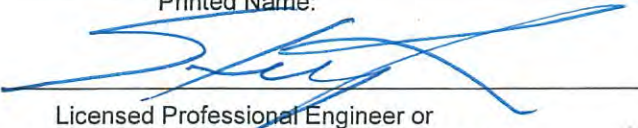
TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60485-15

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

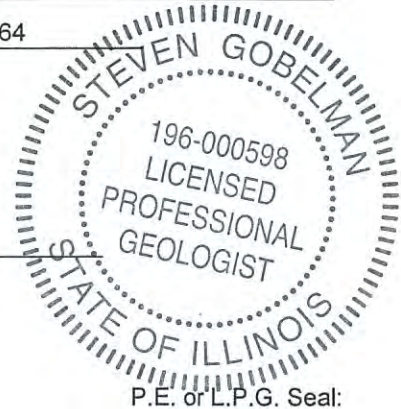
I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment
 Street Address: 2300 South Dirksen Parkway
 City: Springfield State: IL Zip Code: 62764
 Phone: 217-785-4246

Steven Gobelman
 Printed Name:

 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/13/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-60485-15

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/9/2013 5:00:51 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com



LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-15

Client Sample ID: 846D-118-B01

Lab Sample ID: 500-60485-50

Date Collected: 08/05/13 10:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0065		0.0049	0.0021	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00082	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Vinyl acetate	<0.0049		0.0049	0.00078	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	08/05/13 10:45	08/13/13 11:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	08/05/13 10:45	08/13/13 11:21	1
Dibromofluoromethane	103		75 - 120	08/05/13 10:45	08/13/13 11:21	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	08/05/13 10:45	08/13/13 11:21	1
Toluene-d8 (Surr)	95		75 - 122	08/05/13 10:45	08/13/13 11:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-15

Client Sample ID: 846D-118-B01

Lab Sample ID: 500-60485-50

Date Collected: 08/05/13 10:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Pentachlorophenol	<0.73	*	0.73	0.18	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
4,6-Dinitro-2-methylphenol	<0.36	*	0.36	0.087	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Fluoranthene	0.019	J	0.036	0.015	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Pyrene	0.020	J	0.036	0.013	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Benzo[a]anthracene	0.016	J	0.036	0.0076	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-15

Client Sample ID: 846D-118-B01

Lab Sample ID: 500-60485-50

Date Collected: 08/05/13 10:45

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.036	0.0081	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Benzo[b]fluoranthene	0.022	J	0.036	0.0070	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Benzo[k]fluoranthene	0.0097	J	0.036	0.0086	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Benzo[a]pyrene	0.021	J	0.036	0.0066	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.036	0.012	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Benzo[g,h,i]perylene	0.023	J	0.036	0.012	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	08/13/13 19:23	08/19/13 18:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		30 - 110				08/13/13 19:23	08/19/13 18:55	1
Phenol-d5	47		31 - 110				08/13/13 19:23	08/19/13 18:55	1
Nitrobenzene-d5	49		30 - 115				08/13/13 19:23	08/19/13 18:55	1
2-Fluorobiphenyl	55		30 - 119				08/13/13 19:23	08/19/13 18:55	1
2,4,6-Tribromophenol	55		35 - 137				08/13/13 19:23	08/19/13 18:55	1
Terphenyl-d14	63		36 - 134				08/13/13 19:23	08/19/13 18:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Arsenic	1.2		0.54	0.11	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Barium	140		0.54	0.057	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Beryllium	1.8		0.21	0.019	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Boron	15		2.7	0.11	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Cadmium	0.16		0.11	0.014	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Calcium	100000	B	110	29	mg/Kg	☼	08/07/13 15:00	08/20/13 15:26	10
Chromium	5.3		0.54	0.062	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Cobalt	1.4		0.27	0.019	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Copper	3.8		0.54	0.048	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Iron	3700		11	4.4	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Lead	11	B	0.27	0.080	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Magnesium	37000	B	5.4	1.1	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Manganese	1300		5.4	0.29	mg/Kg	☼	08/07/13 15:00	08/20/13 15:26	10
Nickel	2.9	B	0.54	0.053	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Potassium	1100		27	1.6	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Selenium	0.32	J	0.54	0.19	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Sodium	980		54	7.2	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Vanadium	6.3		0.27	0.040	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Zinc	12	B	1.1	0.22	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1
Aluminum	6400	B	11	0.99	mg/Kg	☼	08/07/13 15:00	08/18/13 00:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.96	B	0.50	0.010	mg/L		08/12/13 13:00	08/26/13 07:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 07:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-15

Client Sample ID: 846D-118-B01

Lab Sample ID: 500-60485-50

Date Collected: 08/05/13 10:45

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.6	B	0.10	0.050	mg/L		08/12/13 13:00	08/26/13 07:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 07:14	1
Chromium	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 07:14	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 07:14	1
Iron	1.4		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 07:14	1
Lead	0.0072	J	0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 07:14	1
Manganese	0.10		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 07:14	1
Nickel	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 07:14	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 07:14	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 07:14	1
Zinc	0.74	B	0.10	0.020	mg/L		08/12/13 13:00	08/26/13 07:14	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:32	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 11:01	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0081	mg/Kg	☼	08/09/13 15:00	08/12/13 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.87		0.200	0.200	SU			08/17/13 11:58	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-15

Client Sample ID: 846D-118-B01 DUP

Lab Sample ID: 500-60485-51

Date Collected: 08/05/13 10:50

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	08/05/13 10:50	08/12/13 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/05/13 10:50	08/12/13 14:47	1
Dibromofluoromethane	99		75 - 120	08/05/13 10:50	08/12/13 14:47	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/05/13 10:50	08/12/13 14:47	1
Toluene-d8 (Surr)	94		75 - 122	08/05/13 10:50	08/12/13 14:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-15

Client Sample ID: 846D-118-B01 DUP

Lab Sample ID: 500-60485-51

Date Collected: 08/05/13 10:50

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Pentachlorophenol	<0.78	*	0.78	0.20	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
4,6-Dinitro-2-methylphenol	<0.38	*	0.38	0.093	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Phenanthrene	0.045		0.038	0.016	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Anthracene	0.011	J	0.038	0.0090	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Fluoranthene	0.068		0.038	0.016	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Pyrene	0.082		0.038	0.014	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Benzo[a]anthracene	0.068		0.038	0.0081	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-15

Client Sample ID: 846D-118-B01 DUP

Lab Sample ID: 500-60485-51

Date Collected: 08/05/13 10:50

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.094		0.038	0.0087	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Benzo[b]fluoranthene	0.083		0.038	0.0075	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Benzo[k]fluoranthene	0.030	J	0.038	0.0092	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Benzo[a]pyrene	0.070		0.038	0.0070	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Indeno[1,2,3-cd]pyrene	0.047		0.038	0.013	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Dibenz(a,h)anthracene	0.025	J	0.038	0.011	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Benzo[g,h,i]perylene	0.071		0.038	0.013	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/13/13 19:23	08/19/13 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	32		30 - 110				08/13/13 19:23	08/19/13 19:12	1
Phenol-d5	39		31 - 110				08/13/13 19:23	08/19/13 19:12	1
Nitrobenzene-d5	40		30 - 115				08/13/13 19:23	08/19/13 19:12	1
2-Fluorobiphenyl	49		30 - 119				08/13/13 19:23	08/19/13 19:12	1
2,4,6-Tribromophenol	46		35 - 137				08/13/13 19:23	08/19/13 19:12	1
Terphenyl-d14	57		36 - 134				08/13/13 19:23	08/19/13 19:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Arsenic	0.96		0.57	0.11	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Barium	350		0.57	0.061	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Beryllium	5.5		0.23	0.020	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Boron	43		2.8	0.12	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Cadmium	0.085	J	0.11	0.014	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Calcium	180000	B	110	31	mg/Kg	☼	08/07/13 15:00	08/20/13 15:30	10
Chromium	4.0		0.57	0.066	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Cobalt	0.24	J	0.28	0.020	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Copper	0.41	J	0.57	0.050	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Iron	1900		11	4.7	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Lead	1.3	B	0.28	0.084	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Magnesium	31000	B	5.7	1.2	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Manganese	1400	B	5.7	0.31	mg/Kg	☼	08/07/13 15:00	08/19/13 22:21	10
Nickel	0.58	B	0.57	0.056	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Potassium	2200		28	1.7	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Selenium	2.0		0.57	0.20	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Silver	0.054	J	0.28	0.021	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Sodium	1900		57	7.6	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Vanadium	5.0		0.28	0.042	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Zinc	3.1	B	1.1	0.23	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1
Aluminum	19000	B	11	1.0	mg/Kg	☼	08/07/13 15:00	08/18/13 00:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.79	B	0.50	0.010	mg/L		08/12/13 13:00	08/26/13 07:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 07:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-15

Client Sample ID: 846D-118-B01 DUP

Lab Sample ID: 500-60485-51

Date Collected: 08/05/13 10:50

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.3	B	0.10	0.050	mg/L		08/12/13 13:00	08/26/13 07:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 07:20	1
Chromium	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 07:20	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 07:20	1
Iron	0.27		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 07:20	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 07:20	1
Manganese	0.048		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 07:20	1
Nickel	<0.025		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 07:20	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 07:20	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 07:20	1
Zinc	0.58	B	0.10	0.020	mg/L		08/12/13 13:00	08/26/13 07:20	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:33	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 11:03	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0090	mg/Kg	☼	08/09/13 15:00	08/12/13 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.84		0.200	0.200	SU			08/17/13 12:01	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-15

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Information Project Name: <u>US6/IL7 Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: _____ of _____ Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/39</u> Matrix Key: _____												
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.				ANALYSES														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments		
1	846D-103-B01	8/5	12:45	S	X	X					X	X	X	X				
2	846D-103-B02	8/5	12:35	S	X	X					X	X	X	X				
<div style="position: absolute; top: 50px; left: 50px; font-size: 2em; opacity: 0.5;"> </div>																		
Relinquished by: _____					Date/Time	Received by: _____					Date/Time	8/5/13 4:00						
Relinquished by: _____					Date/Time	Received by: _____					Date/Time	8/5/13 1655						
Relinquished by: _____					Date/Time	Received by: _____					Date/Time	8/5/13 1655						



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US6/IL7WileyCook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: AEZ	COC No.: 1 of 2 Lab Job No.: 500-60485 Sample Temp: 38.463.5373.9 Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other								
SPECIAL INSTRUCTIONS: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.											
ANALYSES											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	7.5-15
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X								



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>US6/IL7 Willard + Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: _____ Sampler: _____	Administrative COC No.: <u>2</u> of <u>2</u> Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/39</u> Matrix Key: _____													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
15	846D-105-B06-a	8/5/13	3:40	S	X	X			X		X	X	X	X		7.5-15
16	846D-105-B07-1		2:25	S	X	X			X		X	X	X	X		0-7.5
17	846D-105-B07-1 DUP		2:40	S	X	X			X		X	X	X	X		0-7.5
18	846D-105-B07-a		2:30	S	X	X			X		X	X	X	X		7.5-15
19	846D-105-B08-1		1:20	S	X	X			X		X	X	X	X		0-7.5
20	846D-105-B08-a		1:30	S	X	X			X		X	X	X	X		7.5-15
Relinquished by: <u>John A. Wright (NET)</u>					Date/Time											
Relinquished by: <u>[Signature]</u>					Date/Time											
Relinquished by: <u>[Signature]</u>					Date/Time											
					Date/Time											



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7 Will & Cook Co</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____	COC No.: _____ of _____ Lab Job No.: _____ Sample Temp: <u>500-60485</u> Matrix Key: <u>3846353739</u> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
26	846D-108-B01	8/5	11:05	S	X	X					X	X	X	X		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> Relinquished by: Relinquished by: Relinquished by: _____ </div> <div style="width: 30%;"> Date/Time: <u>8/5/13 7:00</u> Date/Time: <u>8/5/13 1055</u> Date/Time: _____ </div> <div style="width: 30%;"> Received by: Received by: Received by: _____ </div> <div style="width: 30%;"> Date/Time: <u>8-5-13/1000</u> Date/Time: <u>8/5/13 1055</u> Date/Time: _____ </div> </div>																



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>US6/IL7Wilson Cook Co.</u> Project No.: <u>IDOT 2013-023</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Other: _____ Sampler: _____	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-60485</u> Sample Temp: <u>38.4/35.3/37.3/9</u> Matrix Key: _____ W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
53	846D-119-B01	8/5/13	9:30	S	X	X			X		X	X	X	X		0-6'
54	846D-119-B02	8/5/13	9:50	S	X	X			X		X	X	X	X		0-6'
55	846D-119-B03	8/5/13	10:10	S	X	X			X		X	X	X	X		0-6'
					Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
Relinquished by: <u>Kim Adams (AGI)</u>					8/5/13	4:15										8-5-13/16/15
Relinquished by: _____					8/5/13	16:55										8/5/13/16:55
Relinquished by: _____					Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Approximately 11583 to 12001 159th Street

City: Orland Park State: IL Zip Code: 60491

County: Will Township: Homer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60016 Longitude: -87.91015

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (IL 7)Latitude: 41.60016 Longitude: -87.91015Uncontaminated Site Certification**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 846D-119-B01 AND -B03 WERE SAMPLED ADJACENT TO SITE NO. 846D-119. SEE FIGURES 20 & 21, AND TABLE 3cx OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60485-16

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

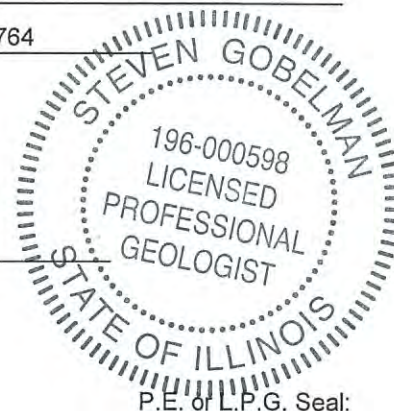
I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date: 11/13/14

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 846D-119

Farmstead

Sample ID	846D-119-B01	846D-119-B03	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6	0-6						
Sample Date	8/5/2013	8/5/2013						
PID	0	0						
Sample pH	7.67	8.58						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-60485-16

Client Project/Site: IDOT - Gougar - WO 023

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/9/2013 5:01:29 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-16

Client Sample ID: 846D-119-B01

Lab Sample ID: 500-60485-53

Date Collected: 08/05/13 09:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 84.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Dibromochloromethane	<0.0046		0.0046	0.00081	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Ethylbenzene	<0.0046		0.0046	0.00094	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00077	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	08/05/13 09:30	08/12/13 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/05/13 09:30	08/12/13 15:33	1
Dibromofluoromethane	103		75 - 120	08/05/13 09:30	08/12/13 15:33	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	08/05/13 09:30	08/12/13 15:33	1
Toluene-d8 (Surr)	93		75 - 122	08/05/13 09:30	08/12/13 15:33	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-16

Client Sample ID: 846D-119-B01

Lab Sample ID: 500-60485-53

Date Collected: 08/05/13 09:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Pentachlorophenol	<0.79	*	0.79	0.20	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
4,6-Dinitro-2-methylphenol	<0.39	*	0.39	0.095	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Phenanthrene	0.030	J	0.039	0.016	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Fluoranthene	0.055		0.039	0.016	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Pyrene	0.054		0.039	0.014	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Benzo[a]anthracene	0.029	J	0.039	0.0082	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-16

Client Sample ID: 846D-119-B01

Lab Sample ID: 500-60485-53

Date Collected: 08/05/13 09:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.031	J	0.039	0.0088	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Benzo[b]fluoranthene	0.039		0.039	0.0076	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Benzo[k]fluoranthene	0.019	J	0.039	0.0093	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Benzo[a]pyrene	0.032	J	0.039	0.0071	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.039	0.013	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
Benzo[g,h,i]perylene	0.028	J	0.039	0.013	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/13/13 19:23	08/19/13 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	33		30 - 110	08/13/13 19:23	08/19/13 19:47	1
Phenol-d5	35		31 - 110	08/13/13 19:23	08/19/13 19:47	1
Nitrobenzene-d5	33		30 - 115	08/13/13 19:23	08/19/13 19:47	1
2-Fluorobiphenyl	39		30 - 119	08/13/13 19:23	08/19/13 19:47	1
2,4,6-Tribromophenol	51		35 - 137	08/13/13 19:23	08/19/13 19:47	1
Terphenyl-d14	62		36 - 134	08/13/13 19:23	08/19/13 19:47	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.010		0.010	0.0041	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
alpha-BHC	<0.010		0.010	0.0025	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
alpha-Chlordane	<0.010		0.010	0.0050	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
beta-BHC	<0.010		0.010	0.0030	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
4,4'-DDD	<0.010		0.010	0.0020	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
4,4'-DDE	<0.010		0.010	0.0016	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
4,4'-DDT	<0.010		0.010	0.0052	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
delta-BHC	<0.010		0.010	0.0031	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
Dieldrin	<0.010		0.010	0.0013	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
Endosulfan I	<0.010		0.010	0.0043	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
Endosulfan II	<0.010		0.010	0.0016	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
Endosulfan sulfate	<0.010		0.010	0.0018	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
Endrin	<0.010		0.010	0.0014	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
Endrin aldehyde	<0.010		0.010	0.0016	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
Endrin ketone	<0.010		0.010	0.0022	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
gamma-BHC (Lindane)	<0.010		0.010	0.0021	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
gamma-Chlordane	<0.010		0.010	0.0026	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
Heptachlor	<0.010		0.010	0.0041	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
Heptachlor epoxide	<0.010		0.010	0.0035	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
Methoxychlor	<0.049		0.049	0.0019	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5
Toxaphene	<0.098		0.098	0.041	mg/Kg	☼	08/10/13 13:31	08/15/13 00:46	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	195	X	56 - 128	08/10/13 13:31	08/15/13 00:46	5
Tetrachloro-m-xylene	77		45 - 112	08/10/13 13:31	08/15/13 00:46	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-16

Client Sample ID: 846D-119-B01

Lab Sample ID: 500-60485-53

Date Collected: 08/05/13 09:30

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 84.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Arsenic	8.4		0.58	0.12	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Barium	47		0.58	0.062	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Beryllium	0.58		0.23	0.021	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Boron	5.6		2.9	0.12	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Cadmium	0.52		0.12	0.015	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Calcium	32000	B	12	3.2	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Chromium	14		0.58	0.068	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Cobalt	9.9		0.29	0.021	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Copper	23		0.58	0.052	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Iron	20000		12	4.8	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Lead	16	B	0.29	0.087	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Magnesium	16000	B	5.8	1.2	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Manganese	540		0.58	0.032	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Nickel	23	B	0.58	0.057	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Potassium	1600		29	1.8	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Sodium	760		58	7.8	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Thallium	0.25	J	0.58	0.25	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Vanadium	18		0.29	0.043	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Zinc	50	B	1.2	0.24	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1
Aluminum	9000	B	12	1.1	mg/Kg	☼	08/07/13 15:00	08/18/13 00:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/29/13 10:00	08/30/13 18:43	1
Lead	0.0066	J	0.0075	0.0050	mg/L		08/29/13 10:00	08/30/13 18:43	1
Manganese	8.2		0.025	0.010	mg/L		08/29/13 10:00	08/30/13 18:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.91	B	0.50	0.010	mg/L		08/12/13 13:00	08/26/13 07:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 07:33	1
Boron	1.2	B	0.10	0.050	mg/L		08/12/13 13:00	08/26/13 07:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 07:33	1
Chromium	0.033		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 07:33	1
Cobalt	0.015	J	0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 07:33	1
Iron	36		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 07:33	1
Lead	0.037		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 07:33	1
Manganese	0.49		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 07:33	1
Nickel	0.040		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 07:33	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 07:33	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 07:33	1
Zinc	0.63	B	0.10	0.020	mg/L		08/12/13 13:00	08/26/13 07:33	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-16

Client Sample ID: 846D-119-B01

Lab Sample ID: 500-60485-53

Date Collected: 08/05/13 09:30

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000090	J	0.00020	0.000020	mg/L	—	08/13/13 15:30	08/14/13 11:07	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.017	0.0081	mg/Kg	☼	08/09/13 15:00	08/12/13 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.67		0.200	0.200	SU	—		08/17/13 12:08	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-16

Client Sample ID: 846D-119-B03

Lab Sample ID: 500-60485-55

Date Collected: 08/05/13 10:10

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.020		0.0045	0.0020	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00060	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00060	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Styrene	<0.0045		0.0045	0.00060	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Toluene	<0.0045		0.0045	0.00064	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	08/05/13 10:10	08/12/13 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	08/05/13 10:10	08/12/13 16:18	1
Dibromofluoromethane	105		75 - 120	08/05/13 10:10	08/12/13 16:18	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	08/05/13 10:10	08/12/13 16:18	1
Toluene-d8 (Surr)	95		75 - 122	08/05/13 10:10	08/12/13 16:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-16

Client Sample ID: 846D-119-B03

Lab Sample ID: 500-60485-55

Date Collected: 08/05/13 10:10

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
2,4-Dinitrotoluene	<0.19		0.19	0.056	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Diethyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Pentachlorophenol	<0.74	*	0.74	0.19	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
4,6-Dinitro-2-methylphenol	<0.37	*	0.37	0.089	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Di-n-butyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Fluoranthene	0.018	J	0.037	0.015	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Pyrene	0.021	J	0.037	0.013	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Benzo[a]anthracene	0.014	J	0.037	0.0077	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-16

Client Sample ID: 846D-119-B03

Lab Sample ID: 500-60485-55

Date Collected: 08/05/13 10:10

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.018	J	0.037	0.0083	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Benzo[b]fluoranthene	0.022	J	0.037	0.0072	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Benzo[k]fluoranthene	0.0089	J	0.037	0.0088	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Benzo[a]pyrene	0.019	J	0.037	0.0067	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Indeno[1,2,3-cd]pyrene	0.015	J	0.037	0.012	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
Benzo[g,h,i]perylene	0.022	J	0.037	0.012	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/13/13 19:23	08/19/13 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	40		30 - 110	08/13/13 19:23	08/19/13 20:22	1
Phenol-d5	43		31 - 110	08/13/13 19:23	08/19/13 20:22	1
Nitrobenzene-d5	41		30 - 115	08/13/13 19:23	08/19/13 20:22	1
2-Fluorobiphenyl	50		30 - 119	08/13/13 19:23	08/19/13 20:22	1
2,4,6-Tribromophenol	35		35 - 137	08/13/13 19:23	08/19/13 20:22	1
Terphenyl-d14	65		36 - 134	08/13/13 19:23	08/19/13 20:22	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.038		0.038	0.016	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
alpha-BHC	<0.038		0.038	0.0096	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
alpha-Chlordane	<0.038		0.038	0.019	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
beta-BHC	<0.038		0.038	0.012	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
4,4'-DDD	<0.038		0.038	0.0075	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
4,4'-DDE	<0.038		0.038	0.0062	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
4,4'-DDT	<0.038		0.038	0.020	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
delta-BHC	<0.038		0.038	0.012	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
Dieldrin	<0.038		0.038	0.0052	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
Endosulfan I	<0.038		0.038	0.016	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
Endosulfan II	<0.038		0.038	0.0061	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
Endosulfan sulfate	<0.038		0.038	0.0069	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
Endrin	<0.038		0.038	0.0052	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
Endrin aldehyde	<0.038		0.038	0.0063	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
Endrin ketone	<0.038		0.038	0.0085	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
gamma-BHC (Lindane)	<0.038		0.038	0.0082	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
gamma-Chlordane	<0.038		0.038	0.0099	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
Heptachlor	<0.038		0.038	0.016	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
Heptachlor epoxide	<0.038		0.038	0.013	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
Methoxychlor	<0.19		0.19	0.0073	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20
Toxaphene	<0.38		0.38	0.16	mg/Kg	☼	08/10/13 13:31	08/15/13 01:46	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	D	56 - 128	08/10/13 13:31	08/15/13 01:46	20
Tetrachloro-m-xylene	0	D	45 - 112	08/10/13 13:31	08/15/13 01:46	20

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-16

Client Sample ID: 846D-119-B03

Lab Sample ID: 500-60485-55

Date Collected: 08/05/13 10:10

Matrix: Solid

Date Received: 08/05/13 16:55

Percent Solids: 86.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Arsenic	9.3		0.57	0.11	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Barium	37		0.57	0.061	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Beryllium	0.57		0.23	0.020	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Boron	6.8		2.9	0.12	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Cadmium	0.64		0.11	0.014	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Calcium	39000	B	11	3.1	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Chromium	15		0.57	0.066	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Cobalt	12		0.29	0.020	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Copper	24		0.57	0.051	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Iron	21000		11	4.7	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Lead	15	B	0.29	0.085	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Magnesium	25000	B	5.7	1.2	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Manganese	510		0.57	0.031	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Nickel	29	B	0.57	0.056	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Potassium	1800		29	1.7	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Sodium	910		57	7.6	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Thallium	0.36	J	0.57	0.24	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Vanadium	17		0.29	0.042	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Zinc	51	B	1.1	0.23	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1
Aluminum	9100	B	11	1.0	mg/Kg	☼	08/07/13 15:00	08/18/13 00:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/29/13 10:00	08/30/13 18:48	1
Chromium	<0.025		0.025	0.010	mg/L		08/29/13 10:00	08/30/13 18:48	1
Iron	0.24		0.20	0.20	mg/L		08/29/13 10:00	08/30/13 18:48	1
Lead	0.0076		0.0075	0.0050	mg/L		08/29/13 10:00	08/30/13 18:48	1
Manganese	3.3		0.025	0.010	mg/L		08/29/13 10:00	08/30/13 18:48	1
Nickel	0.024	J	0.025	0.010	mg/L		08/29/13 10:00	08/30/13 18:48	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2	B	0.50	0.010	mg/L		08/12/13 13:00	08/26/13 08:07	1
Beryllium	0.0057		0.0040	0.0040	mg/L		08/12/13 13:00	08/26/13 08:07	1
Boron	1.3	B	0.10	0.050	mg/L		08/12/13 13:00	08/26/13 08:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/12/13 13:00	08/26/13 08:07	1
Chromium	0.11		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 08:07	1
Cobalt	0.046		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 08:07	1
Iron	140		0.20	0.20	mg/L		08/12/13 13:00	08/26/13 08:07	1
Lead	0.11		0.0075	0.0050	mg/L		08/12/13 13:00	08/26/13 08:07	1
Manganese	0.91		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 08:07	1
Nickel	0.15		0.025	0.010	mg/L		08/12/13 13:00	08/26/13 08:07	1
Selenium	<0.050		0.050	0.010	mg/L		08/12/13 13:00	08/26/13 08:07	1
Silver	<0.025		0.025	0.0050	mg/L		08/12/13 13:00	08/26/13 08:07	1
Zinc	0.94	B	0.10	0.020	mg/L		08/12/13 13:00	08/26/13 08:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-16

Client Sample ID: 846D-119-B03

Lab Sample ID: 500-60485-55

Date Collected: 08/05/13 10:10

Matrix: Solid

Date Received: 08/05/13 16:55

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/29/13 10:00	09/04/13 17:55	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/12/13 13:00	08/15/13 18:41	1
Thallium	0.0037		0.0020	0.0020	mg/L		08/12/13 13:00	08/15/13 18:41	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00024		0.00020	0.000020	mg/L		08/13/13 15:30	08/14/13 11:11	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0087	mg/Kg	☼	08/09/13 15:00	08/12/13 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.58		0.200	0.200	SU			08/17/13 12:16	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Gougar - WO 023

TestAmerica Job ID: 500-60485-16

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: US6/IL7WileyCook Co Project No.: IDOT 2013-023 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: AEZ	COC No.: 1 of 2 Lab Job No.: 500-60485 Sample Temp: 38.4/3.5/37.3/3.9 Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other								
SPECIAL INSTRUCTIONS: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.											
ANALYSES											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	7.5-15
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X	X	X	X	X	X	X	X	0-7.5
X	X	X	X								



CHAIN OF CUSTODY RECORD

Client Contact
 Andrews Engineering, Inc.
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 Lab: Test America - Chicago
 Address: 2417 Bond Street
 University Park, IL 60484
 Phone: 708-534-5200
 Contact: Dick Wright
 email: richard.wright@testamericainc.com

Project Name: US6/IL7 Wild + Cook Co
 Project No.: IDOT 2013 - 023
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Other: ASZ
 Sampler: ASZ

COC No.: 2 of 2
 Lab Job No.: 500-60485
 Sample Temp: 38.4/35.3/39
 Matrix Key: 38.4/35.3/39

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
15	846D-105-B06-a	8/5/13	3:40	S	X	X			X		X	X	X	X		7.5-15
16	846D-105-B07-1		2:25	S	X	X			X		X	X	X	X		0-7.5
17	846D-105-B07-1 DUP		2:40	S	X	X			X		X	X	X	X		0-7.5
18	846D-105-B07-a		2:30	S	X	X			X		X	X	X	X		7.5-15
19	846D-105-B08-1		1:20	S	X	X			X		X	X	X	X		0-7.5
20	846D-105-B08-a		1:30	S	X	X			X		X	X	X	X		7.5-15

ANALYSES

Relinquished by: [Signature] Date/Time: 8/5/13 4:15
 Received by: [Signature] Date/Time: 8/5/13 1655

Relinquished by: [Signature] Date/Time: 8/5/13 1655
 Received by: [Signature] Date/Time: 8/5/13 1655

Relinquished by: [Signature] Date/Time: 8/5/13 1655
 Received by: [Signature] Date/Time: 8/5/13 1655



CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: <u>US6/IL7 Willu x Cook Co</u>	COC No.: _____ of _____
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project No.: <u>IDOT 2013 - 023</u>	Lab Job No.: <u>500-60485</u>
Special Instructions:		TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other _____	Sample Temp: <u>38.4/35.3/39</u>
See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		Sampler: _____	Matrix Key:

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Date/Time			
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization	Comments	
21	846 D-106-B01	8/5	12:25	S	X	X				X	X	X	X	X				
22	846 D-106-B02		11:35	S	X	X				X	X	X	X	X				
23	846 D-106-B03		11:30	S	X	X				X	X	X	X	X				
24	846 D-106-B04		11:20	S	X	X				X	X	X	X	X				
Relinquished by: _____					Date/Time	Received by: _____												
Relinquished by: _____					Date/Time	Received by: _____												
Relinquished by: _____					Date/Time	Received by: _____												

