



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 066 (US 14) Office Phone Number, if available: _____

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

9815 N. US 14

City: Unincorporated State: IL Zip Code: 60033

County: McHenry Township: Chemung

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

Latitude: 42.46974 Longitude: -88.59922
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: _____

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

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

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

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

Project Name: FAP 066 (US 14)

Latitude: 42.46974 Longitude: -88.59922

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS 2821-1-B01 THROUGH 2821-1-B03 WERE SAMPLED ADJACENT TO SITE No. 2821-1. SEE FIGURE 3 AND TABLE 3a OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - Job ID: 500-77955-1

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

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

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

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

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

6/27/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2821-1

Farmstead, 9815 N. US 14

Sample ID	2821-1-B01	2821-1-B02	2821-1-B03	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-2	0-2	0-2						
Sample Date	5/30/2014	5/30/2014	5/30/2014						
PID	0	0	0						
Sample pH	8.53	8.47	8.75						
Matrix	Soil	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77955-1
Client Project/Site: IDOT - US 14 - WO 077

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/16/2014 4:34:01 PM

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

LINKS

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results through
TotalAccess

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www.testamericainc.com

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-1

Client Sample ID: 2821-1-B01

Lab Sample ID: 500-77955-1

Date Collected: 05/30/14 12:05

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Chloromethane	<0.0041	*	0.0041	0.00086	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Vinyl chloride	<0.0041	*	0.0041	0.00086	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	05/31/14 09:50	06/04/14 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	05/31/14 09:50	06/04/14 13:24	1
Dibromofluoromethane	120		75 - 120	05/31/14 09:50	06/04/14 13:24	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	05/31/14 09:50	06/04/14 13:24	1
Toluene-d8 (Surr)	95		75 - 122	05/31/14 09:50	06/04/14 13:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.92		0.92	0.41	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Bis(2-chloroethyl)ether	<0.92		0.92	0.27	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
1,3-Dichlorobenzene	<0.92		0.92	0.21	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
1,4-Dichlorobenzene	<0.92		0.92	0.23	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-1

Client Sample ID: 2821-1-B01

Lab Sample ID: 500-77955-1

Date Collected: 05/30/14 12:05

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.92		0.92	0.22	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
2-Methylphenol	<0.92		0.92	0.29	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
2,2'-oxybis[1-chloropropane]	<0.92		0.92	0.21	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
N-Nitrosodi-n-propylamine	<0.92		0.92	0.22	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Hexachloroethane	<0.92		0.92	0.28	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
2-Chlorophenol	<0.92		0.92	0.31	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Nitrobenzene	<0.18		0.18	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Bis(2-chloroethoxy)methane	<0.92		0.92	0.19	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
1,2,4-Trichlorobenzene	<0.92		0.92	0.20	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Isophorone	<0.92		0.92	0.20	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
2,4-Dimethylphenol	<1.8		1.8	0.69	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Hexachlorobutadiene	<0.92		0.92	0.29	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Naphthalene	<0.18		0.18	0.028	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
2,4-Dichlorophenol	<1.8		1.8	0.43	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
4-Chloroaniline	<3.7		3.7	0.86	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
2,4,6-Trichlorophenol	<1.8		1.8	0.63	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
2,4,5-Trichlorophenol	<1.8		1.8	0.42	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Hexachlorocyclopentadiene	<3.7 *		3.7	1.0	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
2-Methylnaphthalene	<0.18		0.18	0.034	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
2-Nitroaniline	<0.92		0.92	0.25	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
2-Chloronaphthalene	<0.92		0.92	0.20	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
4-Chloro-3-methylphenol	<1.8		1.8	0.62	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
2,6-Dinitrotoluene	<0.92		0.92	0.36	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
2-Nitrophenol	<1.8		1.8	0.43	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
3-Nitroaniline	<1.8		1.8	0.57	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Dimethyl phthalate	<0.92		0.92	0.24	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
2,4-Dinitrophenol	<3.7 *		3.7	3.2	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Acenaphthylene	<0.18		0.18	0.024	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
2,4-Dinitrotoluene	<0.92		0.92	0.29	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Acenaphthene	<0.18		0.18	0.033	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Dibenzofuran	<0.92		0.92	0.21	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
4-Nitrophenol	<3.7		3.7	1.7	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Fluorene	<0.18		0.18	0.026	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
4-Nitroaniline	<1.8		1.8	0.76	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
4-Bromophenyl phenyl ether	<0.92		0.92	0.24	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Hexachlorobenzene	<0.37		0.37	0.042	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Diethyl phthalate	<0.92		0.92	0.31	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
4-Chlorophenyl phenyl ether	<0.92		0.92	0.21	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Pentachlorophenol	<3.7		3.7	2.9	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
N-Nitrosodiphenylamine	<0.92		0.92	0.22	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
4,6-Dinitro-2-methylphenol	<1.8 *		1.8	1.5	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Phenanthrene	0.057	J	0.18	0.025	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Anthracene	<0.18		0.18	0.030	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Carbazole	<0.92		0.92	0.47	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Di-n-butyl phthalate	<0.92		0.92	0.28	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Fluoranthene	0.065	J	0.18	0.034	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Pyrene	0.066	J	0.18	0.036	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Butyl benzyl phthalate	<0.92		0.92	0.35	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Benzo[a]anthracene	0.041	J	0.18	0.025	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-1

Client Sample ID: 2821-1-B01

Lab Sample ID: 500-77955-1

Date Collected: 05/30/14 12:05

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.18		0.18	0.050	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
3,3'-Dichlorobenzidine	<0.92		0.92	0.26	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Bis(2-ethylhexyl) phthalate	<0.92		0.92	0.33	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Di-n-octyl phthalate	<0.92		0.92	0.30	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Benzo[b]fluoranthene	0.051	J	0.18	0.039	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Benzo[k]fluoranthene	<0.18		0.18	0.054	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Benzo[a]pyrene	<0.18		0.18	0.035	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Indeno[1,2,3-cd]pyrene	0.049	J	0.18	0.047	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Dibenz(a,h)anthracene	<0.18		0.18	0.035	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
Benzo[g,h,i]perylene	<0.18		0.18	0.059	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5
3 & 4 Methylphenol	<0.92		0.92	0.30	mg/Kg	☼	06/09/14 18:46	06/12/14 10:40	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		25 - 110	06/09/14 18:46	06/12/14 10:40	5
Phenol-d5	33		31 - 110	06/09/14 18:46	06/12/14 10:40	5
Nitrobenzene-d5	24	X	25 - 115	06/09/14 18:46	06/12/14 10:40	5
2-Fluorobiphenyl	44		25 - 119	06/09/14 18:46	06/12/14 10:40	5
2,4,6-Tribromophenol	59		35 - 137	06/09/14 18:46	06/12/14 10:40	5
Terphenyl-d14	51		36 - 134	06/09/14 18:46	06/12/14 10:40	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.1	0.45	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Arsenic	5.4		0.55	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Barium	78		0.55	0.059	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Beryllium	0.50		0.22	0.044	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Boron	3.6		2.8	0.55	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Cadmium	0.37		0.11	0.014	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Calcium	7500		11	3.0	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Chromium	15		0.55	0.064	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Cobalt	6.7		0.28	0.055	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Copper	13		0.55	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Iron	14000		11	4.6	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Lead	36	B	0.28	0.083	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Magnesium	5800		5.5	1.1	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Manganese	340		0.55	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Nickel	12		0.55	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Potassium	1000		28	1.7	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Selenium	0.53	J	0.55	0.20	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Sodium	2300		55	7.4	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Thallium	0.64		0.55	0.23	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Vanadium	28		0.28	0.041	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1
Zinc	49		1.1	0.22	mg/Kg	☼	06/05/14 16:30	06/06/14 22:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/16/14 10:08	06/16/14 13:05	1
Chromium	<0.025		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 13:05	1
Iron	<0.20		0.20	0.20	mg/L		06/16/14 10:08	06/16/14 13:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-1

Client Sample ID: 2821-1-B01

Lab Sample ID: 500-77955-1

Date Collected: 05/30/14 12:05

Matrix: Solid

Date Received: 05/31/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		06/16/14 10:08	06/16/14 13:05	1
Manganese	0.028		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 13:05	1
Nickel	<0.025		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 13:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64		0.50	0.050	mg/L		06/10/14 15:00	06/11/14 17:12	1
Beryllium	0.0053		0.0040	0.0040	mg/L		06/10/14 15:00	06/11/14 17:12	1
Boron	1.3		0.10	0.050	mg/L		06/10/14 15:00	06/11/14 17:12	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		06/10/14 15:00	06/12/14 13:16	1
Chromium	0.16		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:12	1
Cobalt	0.035		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:12	1
Iron	140		0.20	0.20	mg/L		06/10/14 15:00	06/11/14 17:12	1
Lead	0.72		0.0075	0.0075	mg/L		06/10/14 15:00	06/12/14 13:16	1
Manganese	1.7		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:12	1
Nickel	0.12		0.025	0.010	mg/L		06/10/14 15:00	06/12/14 13:16	1
Selenium	<0.050		0.050	0.010	mg/L		06/10/14 15:00	06/11/14 17:12	1
Silver	<0.025		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:12	1
Zinc	0.82		0.10	0.020	mg/L		06/10/14 15:00	06/12/14 13:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/10/14 15:00	06/11/14 15:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/10/14 15:00	06/13/14 10:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00041		0.00020	0.00010	mg/L		06/10/14 12:53	06/11/14 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.016	0.0064	mg/Kg	☼	06/03/14 13:30	06/04/14 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.53		0.200	0.200	SU			06/10/14 09:10	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-1

Client Sample ID: 2821-1-B02

Lab Sample ID: 500-77955-2

Date Collected: 05/30/14 11:50

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Chloromethane	<0.0044	*	0.0044	0.00093	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00080	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Vinyl chloride	<0.0044	*	0.0044	0.00093	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	05/31/14 09:50	06/04/14 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	05/31/14 09:50	06/04/14 13:47	1
Dibromofluoromethane	121	X	75 - 120	05/31/14 09:50	06/04/14 13:47	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	05/31/14 09:50	06/04/14 13:47	1
Toluene-d8 (Surr)	98		75 - 122	05/31/14 09:50	06/04/14 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.92		0.92	0.41	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Bis(2-chloroethyl)ether	<0.92		0.92	0.27	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
1,3-Dichlorobenzene	<0.92		0.92	0.21	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
1,4-Dichlorobenzene	<0.92		0.92	0.23	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-1

Client Sample ID: 2821-1-B02

Lab Sample ID: 500-77955-2

Date Collected: 05/30/14 11:50

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.92		0.92	0.22	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
2-Methylphenol	<0.92		0.92	0.29	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
2,2'-oxybis[1-chloropropane]	<0.92		0.92	0.21	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
N-Nitrosodi-n-propylamine	<0.92		0.92	0.22	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Hexachloroethane	<0.92		0.92	0.28	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
2-Chlorophenol	<0.92		0.92	0.31	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Nitrobenzene	<0.18		0.18	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Bis(2-chloroethoxy)methane	<0.92		0.92	0.19	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
1,2,4-Trichlorobenzene	<0.92		0.92	0.20	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Isophorone	<0.92		0.92	0.20	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
2,4-Dimethylphenol	<1.8		1.8	0.69	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Hexachlorobutadiene	<0.92		0.92	0.29	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Naphthalene	<0.18		0.18	0.028	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
2,4-Dichlorophenol	<1.8		1.8	0.43	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
4-Chloroaniline	<3.7		3.7	0.86	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
2,4,6-Trichlorophenol	<1.8		1.8	0.63	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
2,4,5-Trichlorophenol	<1.8		1.8	0.42	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Hexachlorocyclopentadiene	<3.7 *		3.7	1.0	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
2-Methylnaphthalene	<0.18		0.18	0.034	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
2-Nitroaniline	<0.92		0.92	0.25	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
2-Chloronaphthalene	<0.92		0.92	0.20	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
4-Chloro-3-methylphenol	<1.8		1.8	0.62	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
2,6-Dinitrotoluene	<0.92		0.92	0.36	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
2-Nitrophenol	<1.8		1.8	0.43	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
3-Nitroaniline	<1.8		1.8	0.57	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Dimethyl phthalate	<0.92		0.92	0.24	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
2,4-Dinitrophenol	<3.7 *		3.7	3.2	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Acenaphthylene	<0.18		0.18	0.024	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
2,4-Dinitrotoluene	<0.92		0.92	0.29	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Acenaphthene	<0.18		0.18	0.033	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Dibenzofuran	<0.92		0.92	0.21	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
4-Nitrophenol	<3.7		3.7	1.7	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Fluorene	<0.18		0.18	0.026	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
4-Nitroaniline	<1.8		1.8	0.76	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
4-Bromophenyl phenyl ether	<0.92		0.92	0.24	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Hexachlorobenzene	<0.37		0.37	0.042	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Diethyl phthalate	<0.92		0.92	0.31	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
4-Chlorophenyl phenyl ether	<0.92		0.92	0.21	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Pentachlorophenol	<3.7		3.7	2.9	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
N-Nitrosodiphenylamine	<0.92		0.92	0.22	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
4,6-Dinitro-2-methylphenol	<1.8 *		1.8	1.5	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Phenanthrene	<0.18		0.18	0.025	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Anthracene	<0.18		0.18	0.030	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Carbazole	<0.92		0.92	0.47	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Di-n-butyl phthalate	<0.92		0.92	0.28	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Fluoranthene	0.058	J	0.18	0.034	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Pyrene	0.065	J	0.18	0.036	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Butyl benzyl phthalate	<0.92		0.92	0.35	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Benzo[a]anthracene	0.048	J	0.18	0.025	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-1

Client Sample ID: 2821-1-B02

Lab Sample ID: 500-77955-2

Date Collected: 05/30/14 11:50

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.059	J	0.18	0.050	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
3,3'-Dichlorobenzidine	<0.92		0.92	0.26	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Bis(2-ethylhexyl) phthalate	<0.92		0.92	0.33	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Di-n-octyl phthalate	<0.92		0.92	0.30	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Benzo[b]fluoranthene	0.063	J	0.18	0.039	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Benzo[k]fluoranthene	<0.18		0.18	0.054	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Benzo[a]pyrene	0.041	J	0.18	0.035	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Indeno[1,2,3-cd]pyrene	0.069	J	0.18	0.047	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Dibenz(a,h)anthracene	<0.18		0.18	0.035	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
Benzo[g,h,i]perylene	0.15	J	0.18	0.059	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5
3 & 4 Methylphenol	<0.92		0.92	0.30	mg/Kg	☼	06/09/14 18:46	06/12/14 11:00	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	44		25 - 110	06/09/14 18:46	06/12/14 11:00	5
Phenol-d5	29	X	31 - 110	06/09/14 18:46	06/12/14 11:00	5
Nitrobenzene-d5	35		25 - 115	06/09/14 18:46	06/12/14 11:00	5
2-Fluorobiphenyl	41		25 - 119	06/09/14 18:46	06/12/14 11:00	5
2,4,6-Tribromophenol	52		35 - 137	06/09/14 18:46	06/12/14 11:00	5
Terphenyl-d14	44		36 - 134	06/09/14 18:46	06/12/14 11:00	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Arsenic	6.6		0.56	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Barium	90		0.56	0.060	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Beryllium	0.61		0.23	0.045	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Boron	5.1		2.8	0.56	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Cadmium	0.37		0.11	0.014	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Calcium	7700		11	3.0	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Chromium	15		0.56	0.065	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Cobalt	7.3		0.28	0.056	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Copper	16		0.56	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Iron	17000		11	4.6	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Lead	39	B	0.28	0.084	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Magnesium	6000		5.6	1.2	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Manganese	460		0.56	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Nickel	14		0.56	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Potassium	1100		28	1.7	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Selenium	0.51	J	0.56	0.20	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Sodium	2600		56	7.5	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Thallium	0.81		0.56	0.24	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Vanadium	29		0.28	0.042	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1
Zinc	40		1.1	0.23	mg/Kg	☼	06/05/14 16:30	06/06/14 22:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/16/14 10:08	06/16/14 13:10	1
Chromium	<0.025		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 13:10	1
Iron	<0.20		0.20	0.20	mg/L		06/16/14 10:08	06/16/14 13:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-1

Client Sample ID: 2821-1-B02

Lab Sample ID: 500-77955-2

Date Collected: 05/30/14 11:50

Matrix: Solid

Date Received: 05/31/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		06/16/14 10:08	06/16/14 13:10	1
Manganese	0.50		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64		0.50	0.050	mg/L		06/10/14 15:00	06/11/14 17:18	1
Beryllium	0.0042		0.0040	0.0040	mg/L		06/10/14 15:00	06/11/14 17:18	1
Boron	1.3		0.10	0.050	mg/L		06/10/14 15:00	06/11/14 17:18	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		06/10/14 15:00	06/12/14 13:20	1
Chromium	0.13		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:18	1
Cobalt	0.025		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:18	1
Iron	110		0.20	0.20	mg/L		06/10/14 15:00	06/11/14 17:18	1
Lead	0.56		0.0075	0.0075	mg/L		06/10/14 15:00	06/12/14 13:20	1
Manganese	1.4		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:18	1
Nickel	0.097		0.025	0.010	mg/L		06/10/14 15:00	06/12/14 13:20	1
Selenium	<0.050		0.050	0.010	mg/L		06/10/14 15:00	06/11/14 17:18	1
Silver	<0.025		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:18	1
Zinc	0.57		0.10	0.020	mg/L		06/10/14 15:00	06/12/14 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/10/14 15:00	06/11/14 15:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/10/14 15:00	06/11/14 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00041		0.00020	0.00010	mg/L		06/10/14 12:53	06/11/14 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0071	mg/Kg	☼	06/03/14 13:30	06/04/14 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.47		0.200	0.200	SU			06/10/14 09:27	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-1

Client Sample ID: 2821-1-B03

Lab Sample ID: 500-77955-3

Date Collected: 05/30/14 11:35

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0040		0.0040	0.0017	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Benzene	<0.0040		0.0040	0.00054	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Bromoform	<0.0040		0.0040	0.00091	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Carbon disulfide	<0.0040		0.0040	0.00059	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Carbon tetrachloride	<0.0040		0.0040	0.00072	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Chlorobenzene	<0.0040		0.0040	0.00040	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Chloromethane	<0.0040	*	0.0040	0.00083	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00056	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00052	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Dibromochloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
1,1-Dichloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
1,1,1-Dichloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
1,2-Dichloropropane	<0.0040		0.0040	0.00060	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00052	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Ethylbenzene	<0.0040		0.0040	0.00080	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
2-Hexanone	<0.0040		0.0040	0.0011	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0010	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00066	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Styrene	<0.0040		0.0040	0.00052	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00080	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Tetrachloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00071	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00054	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Vinyl acetate	<0.0040		0.0040	0.00062	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Vinyl chloride	<0.0040	*	0.0040	0.00083	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1
Xylenes, Total	<0.0079		0.0079	0.00036	mg/Kg	☼	05/31/14 09:50	06/04/14 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	05/31/14 09:50	06/04/14 14:10	1
Dibromofluoromethane	127	X	75 - 120	05/31/14 09:50	06/04/14 14:10	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	05/31/14 09:50	06/04/14 14:10	1
Toluene-d8 (Surr)	95		75 - 122	05/31/14 09:50	06/04/14 14:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.91		0.91	0.40	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Bis(2-chloroethyl)ether	<0.91		0.91	0.27	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
1,3-Dichlorobenzene	<0.91		0.91	0.20	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
1,4-Dichlorobenzene	<0.91		0.91	0.23	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-1

Client Sample ID: 2821-1-B03

Lab Sample ID: 500-77955-3

Date Collected: 05/30/14 11:35

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.91		0.91	0.22	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
2-Methylphenol	<0.91		0.91	0.29	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
2,2'-oxybis[1-chloropropane]	<0.91		0.91	0.21	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
N-Nitrosodi-n-propylamine	<0.91		0.91	0.22	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Hexachloroethane	<0.91		0.91	0.28	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
2-Chlorophenol	<0.91		0.91	0.31	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Nitrobenzene	<0.18		0.18	0.045	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Bis(2-chloroethoxy)methane	<0.91		0.91	0.18	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
1,2,4-Trichlorobenzene	<0.91		0.91	0.20	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Isophorone	<0.91		0.91	0.20	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
2,4-Dimethylphenol	<1.8		1.8	0.69	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Hexachlorobutadiene	<0.91		0.91	0.28	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Naphthalene	<0.18		0.18	0.028	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
2,4-Dichlorophenol	<1.8		1.8	0.43	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
4-Chloroaniline	<3.7		3.7	0.85	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
2,4,6-Trichlorophenol	<1.8		1.8	0.62	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
2,4,5-Trichlorophenol	<1.8		1.8	0.41	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Hexachlorocyclopentadiene	<3.7 *		3.7	1.0	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
2-Methylnaphthalene	<0.18		0.18	0.033	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
2-Nitroaniline	<0.91		0.91	0.24	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
2-Chloronaphthalene	<0.91		0.91	0.20	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
4-Chloro-3-methylphenol	<1.8		1.8	0.62	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
2,6-Dinitrotoluene	<0.91		0.91	0.36	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
2-Nitrophenol	<1.8		1.8	0.43	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
3-Nitroaniline	<1.8		1.8	0.56	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Dimethyl phthalate	<0.91		0.91	0.24	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
2,4-Dinitrophenol	<3.7 *		3.7	3.2	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Acenaphthylene	<0.18		0.18	0.024	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
2,4-Dinitrotoluene	<0.91		0.91	0.29	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Acenaphthene	<0.18		0.18	0.033	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Dibenzofuran	<0.91		0.91	0.21	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
4-Nitrophenol	<3.7		3.7	1.7	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Fluorene	<0.18		0.18	0.025	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
4-Nitroaniline	<1.8		1.8	0.76	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
4-Bromophenyl phenyl ether	<0.91		0.91	0.24	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Hexachlorobenzene	<0.37		0.37	0.042	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Diethyl phthalate	<0.91		0.91	0.31	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
4-Chlorophenyl phenyl ether	<0.91		0.91	0.21	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Pentachlorophenol	<3.7		3.7	2.9	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
N-Nitrosodiphenylamine	<0.91		0.91	0.21	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
4,6-Dinitro-2-methylphenol	<1.8 *		1.8	1.5	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Phenanthrene	<0.18		0.18	0.025	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Anthracene	<0.18		0.18	0.030	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Carbazole	<0.91		0.91	0.47	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Di-n-butyl phthalate	<0.91		0.91	0.28	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Fluoranthene	0.038	J	0.18	0.034	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Pyrene	0.046	J	0.18	0.036	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Butyl benzyl phthalate	<0.91		0.91	0.34	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Benzo[a]anthracene	<0.18		0.18	0.024	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-1

Client Sample ID: 2821-1-B03

Lab Sample ID: 500-77955-3

Date Collected: 05/30/14 11:35

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.18		0.18	0.049	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
3,3'-Dichlorobenzidine	<0.91		0.91	0.25	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Bis(2-ethylhexyl) phthalate	<0.91		0.91	0.33	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Di-n-octyl phthalate	<0.91		0.91	0.30	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Benzo[b]fluoranthene	0.040	J	0.18	0.039	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Benzo[k]fluoranthene	<0.18		0.18	0.053	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Benzo[a]pyrene	<0.18		0.18	0.035	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Indeno[1,2,3-cd]pyrene	<0.18		0.18	0.047	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Dibenz(a,h)anthracene	<0.18		0.18	0.035	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Benzo[g,h,i]perylene	<0.18		0.18	0.058	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
3 & 4 Methylphenol	<0.91		0.91	0.30	mg/Kg	☼	06/09/14 18:46	06/12/14 11:20	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		25 - 110				06/09/14 18:46	06/12/14 11:20	5
Phenol-d5	35		31 - 110				06/09/14 18:46	06/12/14 11:20	5
Nitrobenzene-d5	31		25 - 115				06/09/14 18:46	06/12/14 11:20	5
2-Fluorobiphenyl	44		25 - 119				06/09/14 18:46	06/12/14 11:20	5
2,4,6-Tribromophenol	54		35 - 137				06/09/14 18:46	06/12/14 11:20	5
Terphenyl-d14	51		36 - 134				06/09/14 18:46	06/12/14 11:20	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Arsenic	5.2		0.55	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Barium	100		0.55	0.059	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Beryllium	0.50		0.22	0.044	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Boron	2.4	J	2.8	0.55	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Cadmium	0.35		0.11	0.014	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Calcium	8600		11	3.0	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Chromium	14		0.55	0.064	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Cobalt	6.2		0.28	0.055	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Copper	12		0.55	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Iron	14000		11	4.5	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Lead	26	B	0.28	0.082	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Magnesium	6200		5.5	1.1	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Manganese	540		0.55	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Nickel	11		0.55	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Potassium	910		28	1.7	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Selenium	0.51	J	0.55	0.20	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Silver	0.034	J	0.28	0.020	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Sodium	2700		55	7.4	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Thallium	0.96		0.55	0.23	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Vanadium	25		0.28	0.041	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1
Zinc	42		1.1	0.22	mg/Kg	☼	06/05/14 16:30	06/06/14 23:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/16/14 10:08	06/16/14 13:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/16/14 10:08	06/16/14 13:15	1
Manganese	0.077		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 13:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-1

Client Sample ID: 2821-1-B03

Lab Sample ID: 500-77955-3

Date Collected: 05/30/14 11:35

Matrix: Solid

Date Received: 05/31/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.050	mg/L		06/10/14 15:00	06/11/14 17:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/10/14 15:00	06/11/14 17:25	1
Boron	1.2		0.10	0.050	mg/L		06/10/14 15:00	06/11/14 17:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/10/14 15:00	06/12/14 13:24	1
Chromium	0.093		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:25	1
Cobalt	0.017	J	0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:25	1
Iron	69		0.20	0.20	mg/L		06/10/14 15:00	06/11/14 17:25	1
Lead	0.48		0.0075	0.0075	mg/L		06/10/14 15:00	06/12/14 13:24	1
Manganese	0.90		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:25	1
Nickel	0.057		0.025	0.010	mg/L		06/10/14 15:00	06/12/14 13:24	1
Selenium	<0.050		0.050	0.010	mg/L		06/10/14 15:00	06/11/14 17:25	1
Silver	<0.025		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:25	1
Zinc	0.46		0.10	0.020	mg/L		06/10/14 15:00	06/12/14 13:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/10/14 15:00	06/11/14 15:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/10/14 15:00	06/11/14 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J	0.00020	0.00010	mg/L		06/10/14 12:53	06/11/14 11:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.017	0.0067	mg/Kg	✱	06/03/14 13:30	06/04/14 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.75		0.200	0.200	SU			06/10/14 09:36	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Glossary

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



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 066 (US 14) Office Phone Number, if available: _____

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

9800 - 9900 blocks of N. US 14 (east & west sides of N. US 14 south of Lawrence Creek - east side of US 14 north of creek)

City: Unincorporated State: IL Zip Code: 60033

County: McHenry Township: Chemung

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

Latitude: 42.46796 Longitude: -88.59987

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: _____

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

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

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

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

Project Name: FAP 066 (US 14)

Latitude: 42.46796 Longitude: -88.59987

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS 2821-2-B01, -B02, -B03, -B05 AND -B06 WERE SAMPLED ADJACENT TO SITE No. 2821-2. SEE FIGURES 2 AND 3, AND TABLE 3b OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - Job ID: 500-77955-2

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

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

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

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

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

6/27/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

**ISGS Site 2821-2
Agricultural Land**

Sample ID	2821-2-B01	2821-2-B02	2821-2-B03	2821-2-B05	2821-2-B06	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only	
Sample Depth (ft)	0-4.5	0-4.5	0-4.5	0-4.5	0-4.5							
Sample Date	5/30/2014	5/30/2014	5/30/2014	5/30/2014	5/30/2014							
PID	0	0	0	0	0							
Sample pH	7.98	8.26	8.34	8.69	8.52							
Matrix	Soil	Soil	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	ND	ND	0.13	1.2	0.14	1.2	0.09	0.09	0.98	1.3	2.1	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77955-2
Client Project/Site: IDOT - US 14 - WO 077

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/16/2014 4:34:47 PM

Richard Wright, Senior Project Manager
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LINKS

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www.testamericainc.com

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B01

Lab Sample ID: 500-77955-4

Date Collected: 05/30/14 13:45

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.0047	0.0020	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Carbon disulfide	<0.0047		0.0047	0.00069	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Chloroform	<0.0047		0.0047	0.00053	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Chloromethane	<0.0047	*	0.0047	0.00098	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00083	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Vinyl acetate	<0.0047		0.0047	0.00073	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Vinyl chloride	<0.0047	*	0.0047	0.00098	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	05/31/14 09:50	06/04/14 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	05/31/14 09:50	06/04/14 14:33	1
Dibromofluoromethane	114		75 - 120	05/31/14 09:50	06/04/14 14:33	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	05/31/14 09:50	06/04/14 14:33	1
Toluene-d8 (Surr)	100		75 - 122	05/31/14 09:50	06/04/14 14:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B01

Lab Sample ID: 500-77955-4

Date Collected: 05/30/14 13:45

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Hexachlorocyclopentadiene	<0.79	*	0.79	0.23	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
4,6-Dinitro-2-methylphenol	<0.39	*	0.39	0.32	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Fluoranthene	0.015	J	0.039	0.0073	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Pyrene	0.015	J	0.039	0.0078	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Benzo[a]anthracene	0.0092	J	0.039	0.0053	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B01

Lab Sample ID: 500-77955-4

Date Collected: 05/30/14 13:45

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.039	0.011	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Benzo[b]fluoranthene	0.016	J	0.039	0.0085	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.039	0.010	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
Benzo[g,h,i]perylene	0.013	J	0.039	0.013	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/09/14 18:46	06/12/14 11:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	45		25 - 110	06/09/14 18:46	06/12/14 11:39	1
Phenol-d5	33		31 - 110	06/09/14 18:46	06/12/14 11:39	1
Nitrobenzene-d5	40		25 - 115	06/09/14 18:46	06/12/14 11:39	1
2-Fluorobiphenyl	39		25 - 119	06/09/14 18:46	06/12/14 11:39	1
2,4,6-Tribromophenol	55		35 - 137	06/09/14 18:46	06/12/14 11:39	1
Terphenyl-d14	63		36 - 134	06/09/14 18:46	06/12/14 11:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Arsenic	6.0		0.56	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Barium	100		0.56	0.060	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Beryllium	0.52		0.23	0.045	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Boron	4.0		2.8	0.56	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Cadmium	0.60		0.11	0.014	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Calcium	24000		11	3.1	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Chromium	14		0.56	0.065	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Cobalt	7.5		0.28	0.056	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Copper	15		0.56	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Iron	17000		11	4.6	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Lead	11	B	0.28	0.084	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Magnesium	16000		5.6	1.2	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Manganese	690		0.56	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Nickel	13		0.56	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Potassium	1300		28	1.7	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Silver	0.038	J	0.28	0.020	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Sodium	1400		56	7.5	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Thallium	0.91		0.56	0.24	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Vanadium	34		0.28	0.042	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1
Zinc	40		1.1	0.23	mg/Kg	☼	06/05/14 16:30	06/06/14 23:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/16/14 10:08	06/16/14 13:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/16/14 10:08	06/16/14 13:34	1
Manganese	0.11		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 13:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B01

Lab Sample ID: 500-77955-4

Date Collected: 05/30/14 13:45

Matrix: Solid

Date Received: 05/31/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.35	J	0.50	0.050	mg/L		06/10/14 15:00	06/11/14 17:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/10/14 15:00	06/11/14 17:31	1
Boron	1.3		0.10	0.050	mg/L		06/10/14 15:00	06/11/14 17:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/10/14 15:00	06/12/14 13:28	1
Chromium	0.075		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:31	1
Cobalt	0.012	J	0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:31	1
Iron	62		0.20	0.20	mg/L		06/10/14 15:00	06/11/14 17:31	1
Lead	0.050		0.0075	0.0075	mg/L		06/10/14 15:00	06/12/14 13:28	1
Manganese	0.52		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:31	1
Nickel	0.067		0.025	0.010	mg/L		06/10/14 15:00	06/12/14 13:28	1
Selenium	<0.050		0.050	0.010	mg/L		06/10/14 15:00	06/11/14 17:31	1
Silver	<0.025		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:31	1
Zinc	0.25		0.10	0.020	mg/L		06/10/14 15:00	06/12/14 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/10/14 15:00	06/11/14 15:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/10/14 15:00	06/11/14 15:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		06/10/14 12:53	06/11/14 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.020	0.0078	mg/Kg	✱	06/03/14 13:30	06/04/14 13:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.98		0.200	0.200	SU			06/10/14 09:45	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B02

Lab Sample ID: 500-77955-5

Date Collected: 05/30/14 13:30

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Chloromethane	<0.0045	*	0.0045	0.00094	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Vinyl chloride	<0.0045	*	0.0045	0.00094	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	05/31/14 09:50	06/04/14 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	05/31/14 09:50	06/04/14 14:56	1
Dibromofluoromethane	123	X	75 - 120	05/31/14 09:50	06/04/14 14:56	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	05/31/14 09:50	06/04/14 14:56	1
Toluene-d8 (Surr)	96		75 - 122	05/31/14 09:50	06/04/14 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B02

Lab Sample ID: 500-77955-5

Date Collected: 05/30/14 13:30

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Hexachlorocyclopentadiene	<0.78	*	0.78	0.22	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
4,6-Dinitro-2-methylphenol	<0.38	*	0.38	0.31	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Carbazole	<0.19		0.19	0.10	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B02

Lab Sample ID: 500-77955-5

Date Collected: 05/30/14 13:30

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	06/09/14 18:46	06/12/14 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	37		25 - 110	06/09/14 18:46	06/12/14 11:59	1
Phenol-d5	26	X	31 - 110	06/09/14 18:46	06/12/14 11:59	1
Nitrobenzene-d5	27		25 - 115	06/09/14 18:46	06/12/14 11:59	1
2-Fluorobiphenyl	35		25 - 119	06/09/14 18:46	06/12/14 11:59	1
2,4,6-Tribromophenol	42		35 - 137	06/09/14 18:46	06/12/14 11:59	1
Terphenyl-d14	53		36 - 134	06/09/14 18:46	06/12/14 11:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Arsenic	3.4		0.58	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Barium	80		0.58	0.062	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Beryllium	0.58		0.23	0.046	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Boron	2.6	J	2.9	0.58	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Cadmium	0.30		0.12	0.015	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Calcium	13000		12	3.1	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Chromium	13		0.58	0.067	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Cobalt	6.2		0.29	0.058	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Copper	11		0.58	0.12	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Iron	14000		12	4.7	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Lead	11	B	0.29	0.086	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Magnesium	9800		5.8	1.2	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Manganese	460		0.58	0.12	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Nickel	11		0.58	0.12	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Potassium	770		29	1.7	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Selenium	0.26	J	0.58	0.20	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Sodium	2300		58	7.7	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Thallium	0.72		0.58	0.24	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Vanadium	30		0.29	0.043	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1
Zinc	28		1.2	0.23	mg/Kg	☼	06/05/14 16:30	06/06/14 23:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/16/14 10:08	06/16/14 13:39	1
Chromium	<0.025		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 13:39	1
Iron	<0.20		0.20	0.20	mg/L		06/16/14 10:08	06/16/14 13:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B02

Lab Sample ID: 500-77955-5

Date Collected: 05/30/14 13:30

Matrix: Solid

Date Received: 05/31/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		06/16/14 10:08	06/16/14 13:39	1
Manganese	0.22		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 13:39	1
Nickel	<0.025		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.98		0.50	0.050	mg/L		06/10/14 15:00	06/11/14 17:37	1
Beryllium	0.0074		0.0040	0.0040	mg/L		06/10/14 15:00	06/11/14 17:37	1
Boron	1.3		0.10	0.050	mg/L		06/10/14 15:00	06/11/14 17:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/10/14 15:00	06/12/14 13:32	1
Chromium	0.22		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:37	1
Cobalt	0.031		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:37	1
Iron	170		0.20	0.20	mg/L		06/10/14 15:00	06/11/14 17:37	1
Lead	0.096		0.0075	0.0075	mg/L		06/10/14 15:00	06/12/14 13:32	1
Manganese	0.97		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:37	1
Nickel	0.14		0.025	0.010	mg/L		06/10/14 15:00	06/12/14 13:32	1
Selenium	<0.050		0.050	0.010	mg/L		06/10/14 15:00	06/11/14 17:37	1
Silver	<0.025		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:37	1
Zinc	0.57		0.10	0.020	mg/L		06/10/14 15:00	06/12/14 13:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/10/14 15:00	06/11/14 15:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/10/14 15:00	06/11/14 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00054		0.00020	0.00010	mg/L		06/10/14 12:53	06/11/14 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.017	0.0068	mg/Kg	☼	06/03/14 13:30	06/04/14 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.26		0.200	0.200	SU			06/10/14 09:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B03

Lab Sample ID: 500-77955-6

Date Collected: 05/30/14 13:15

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Chloromethane	<0.0045	*	0.0045	0.00094	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Vinyl chloride	<0.0045	*	0.0045	0.00094	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	05/31/14 09:50	06/04/14 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	05/31/14 09:50	06/04/14 15:19	1
Dibromofluoromethane	124	X	75 - 120	05/31/14 09:50	06/04/14 15:19	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	05/31/14 09:50	06/04/14 15:19	1
Toluene-d8 (Surr)	100		75 - 122	05/31/14 09:50	06/04/14 15:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B03

Lab Sample ID: 500-77955-6

Date Collected: 05/30/14 13:15

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Hexachlorocyclopentadiene	<0.79	*	0.79	0.23	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Acenaphthylene	0.050		0.039	0.0052	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
4,6-Dinitro-2-methylphenol	<0.39	*	0.39	0.32	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Phenanthrene	0.012	J	0.039	0.0055	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Anthracene	0.013	J	0.039	0.0066	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Fluoranthene	0.12		0.039	0.0073	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Pyrene	0.14		0.039	0.0078	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Benzo[a]anthracene	0.095		0.039	0.0053	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B03

Lab Sample ID: 500-77955-6

Date Collected: 05/30/14 13:15

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.13		0.039	0.011	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Benzo[b]fluoranthene	0.18		0.039	0.0085	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Benzo[k]fluoranthene	0.071		0.039	0.012	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Benzo[a]pyrene	0.13		0.039	0.0076	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Indeno[1,2,3-cd]pyrene	0.13		0.039	0.010	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Dibenz(a,h)anthracene	0.037	J	0.039	0.0076	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
Benzo[g,h,i]perylene	0.14		0.039	0.013	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	06/09/14 18:46	06/12/14 12:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	35		25 - 110	06/09/14 18:46	06/12/14 12:20	1
Phenol-d5	27	X	31 - 110	06/09/14 18:46	06/12/14 12:20	1
Nitrobenzene-d5	28		25 - 115	06/09/14 18:46	06/12/14 12:20	1
2-Fluorobiphenyl	31		25 - 119	06/09/14 18:46	06/12/14 12:20	1
2,4,6-Tribromophenol	45		35 - 137	06/09/14 18:46	06/12/14 12:20	1
Terphenyl-d14	47		36 - 134	06/09/14 18:46	06/12/14 12:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Arsenic	3.0		0.61	0.12	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Barium	81		0.61	0.065	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Beryllium	0.46		0.24	0.049	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Boron	3.6		3.0	0.61	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Cadmium	0.28		0.12	0.015	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Calcium	16000		12	3.3	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Chromium	12		0.61	0.071	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Cobalt	5.9		0.30	0.061	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Copper	11		0.61	0.12	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Iron	12000		12	5.0	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Lead	11	B	0.30	0.091	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Magnesium	10000		6.1	1.3	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Manganese	430		0.61	0.12	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Nickel	9.2		0.61	0.12	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Potassium	840		30	1.8	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Selenium	0.33	J	0.61	0.22	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Sodium	2000		61	8.2	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Thallium	0.63		0.61	0.26	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Vanadium	26		0.30	0.045	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1
Zinc	30		1.2	0.25	mg/Kg	☼	06/05/14 16:30	06/06/14 23:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/16/14 10:08	06/16/14 13:52	1
Chromium	<0.025		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 13:52	1
Iron	<0.20		0.20	0.20	mg/L		06/16/14 10:08	06/16/14 13:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B03

Lab Sample ID: 500-77955-6

Date Collected: 05/30/14 13:15

Matrix: Solid

Date Received: 05/31/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		06/16/14 10:08	06/16/14 13:52	1
Manganese	0.36		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.72		0.50	0.050	mg/L		06/10/14 15:00	06/11/14 17:43	1
Beryllium	0.0053		0.0040	0.0040	mg/L		06/10/14 15:00	06/11/14 17:43	1
Boron	1.3		0.10	0.050	mg/L		06/10/14 15:00	06/11/14 17:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/10/14 15:00	06/12/14 13:44	1
Chromium	0.16		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:43	1
Cobalt	0.024	J	0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:43	1
Iron	120		0.20	0.20	mg/L		06/10/14 15:00	06/11/14 17:43	1
Lead	0.090		0.0075	0.0075	mg/L		06/10/14 15:00	06/12/14 13:44	1
Manganese	0.76		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:43	1
Nickel	0.096		0.025	0.010	mg/L		06/10/14 15:00	06/12/14 13:44	1
Selenium	<0.050		0.050	0.010	mg/L		06/10/14 15:00	06/11/14 17:43	1
Silver	<0.025		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 17:43	1
Zinc	0.43		0.10	0.020	mg/L		06/10/14 15:00	06/12/14 13:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/10/14 15:00	06/11/14 15:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/10/14 15:00	06/11/14 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00042		0.00020	0.00010	mg/L		06/10/14 12:53	06/11/14 11:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.018	0.0071	mg/Kg	☼	06/03/14 13:30	06/04/14 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.34		0.200	0.200	SU			06/10/14 10:02	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B05

Lab Sample ID: 500-77955-8

Date Collected: 05/30/14 14:55

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Chloromethane	<0.0044	*	0.0044	0.00092	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
1,2-Dichloropropane	<0.0044		0.0044	0.00066	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00078	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Vinyl chloride	<0.0044	*	0.0044	0.00092	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1
Xylenes, Total	<0.0087		0.0087	0.00040	mg/Kg	☼	05/31/14 09:50	06/04/14 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	05/31/14 09:50	06/04/14 16:05	1
Dibromofluoromethane	118		75 - 120	05/31/14 09:50	06/04/14 16:05	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	05/31/14 09:50	06/04/14 16:05	1
Toluene-d8 (Surr)	97		75 - 122	05/31/14 09:50	06/04/14 16:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.93		0.93	0.41	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Bis(2-chloroethyl)ether	<0.93		0.93	0.28	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
1,3-Dichlorobenzene	<0.93		0.93	0.21	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
1,4-Dichlorobenzene	<0.93		0.93	0.24	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B05

Lab Sample ID: 500-77955-8

Date Collected: 05/30/14 14:55

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.93		0.93	0.22	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
2-Methylphenol	<0.93		0.93	0.30	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
2,2'-oxybis[1-chloropropane]	<0.93		0.93	0.21	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
N-Nitrosodi-n-propylamine	<0.93		0.93	0.23	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Hexachloroethane	<0.93		0.93	0.28	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
2-Chlorophenol	<0.93		0.93	0.32	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Nitrobenzene	<0.18		0.18	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Bis(2-chloroethoxy)methane	<0.93		0.93	0.19	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
1,2,4-Trichlorobenzene	<0.93		0.93	0.20	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Isophorone	<0.93		0.93	0.21	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
2,4-Dimethylphenol	<1.8		1.8	0.70	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Hexachlorobutadiene	<0.93		0.93	0.29	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Naphthalene	<0.18		0.18	0.029	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
2,4-Dichlorophenol	<1.8		1.8	0.44	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
4-Chloroaniline	<3.7		3.7	0.87	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
2,4,6-Trichlorophenol	<1.8		1.8	0.64	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
2,4,5-Trichlorophenol	<1.8		1.8	0.42	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Hexachlorocyclopentadiene	<3.7 *		3.7	1.1	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
2-Methylnaphthalene	<0.18		0.18	0.034	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
2-Nitroaniline	<0.93		0.93	0.25	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
2-Chloronaphthalene	<0.93		0.93	0.20	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
4-Chloro-3-methylphenol	<1.8		1.8	0.63	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
2,6-Dinitrotoluene	<0.93		0.93	0.36	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
2-Nitrophenol	<1.8		1.8	0.44	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
3-Nitroaniline	<1.8		1.8	0.57	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Dimethyl phthalate	<0.93		0.93	0.24	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
2,4-Dinitrophenol	<3.7 *		3.7	3.3	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Acenaphthylene	<0.18		0.18	0.024	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
2,4-Dinitrotoluene	<0.93		0.93	0.29	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Acenaphthene	<0.18		0.18	0.033	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Dibenzofuran	<0.93		0.93	0.22	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
4-Nitrophenol	<3.7		3.7	1.8	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Fluorene	<0.18		0.18	0.026	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
4-Nitroaniline	<1.8		1.8	0.78	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
4-Bromophenyl phenyl ether	<0.93		0.93	0.24	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Hexachlorobenzene	<0.37		0.37	0.043	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Diethyl phthalate	<0.93		0.93	0.31	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
4-Chlorophenyl phenyl ether	<0.93		0.93	0.22	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Pentachlorophenol	<3.7		3.7	3.0	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
N-Nitrosodiphenylamine	<0.93		0.93	0.22	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
4,6-Dinitro-2-methylphenol	<1.8 *		1.8	1.5	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Phenanthrene	0.048	J	0.18	0.026	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Anthracene	<0.18		0.18	0.031	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Carbazole	<0.93		0.93	0.48	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Di-n-butyl phthalate	<0.93		0.93	0.28	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Fluoranthene	0.077	J	0.18	0.034	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Pyrene	0.088	J	0.18	0.037	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Butyl benzyl phthalate	<0.93		0.93	0.35	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Benzo[a]anthracene	0.055	J	0.18	0.025	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B05

Lab Sample ID: 500-77955-8

Date Collected: 05/30/14 14:55

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.063	J	0.18	0.051	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
3,3'-Dichlorobenzidine	<0.93		0.93	0.26	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Bis(2-ethylhexyl) phthalate	<0.93		0.93	0.34	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Di-n-octyl phthalate	<0.93		0.93	0.30	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Benzo[b]fluoranthene	0.075	J	0.18	0.040	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Benzo[k]fluoranthene	<0.18		0.18	0.055	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Benzo[a]pyrene	<0.18		0.18	0.036	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Indeno[1,2,3-cd]pyrene	0.052	J	0.18	0.048	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Dibenz(a,h)anthracene	<0.18		0.18	0.036	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Benzo[g,h,i]perylene	<0.18		0.18	0.060	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
3 & 4 Methylphenol	<0.93		0.93	0.31	mg/Kg	☼	06/09/14 18:46	06/12/14 13:40	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110				06/09/14 18:46	06/12/14 13:40	5
Phenol-d5	37		31 - 110				06/09/14 18:46	06/12/14 13:40	5
Nitrobenzene-d5	35		25 - 115				06/09/14 18:46	06/12/14 13:40	5
2-Fluorobiphenyl	47		25 - 119				06/09/14 18:46	06/12/14 13:40	5
2,4,6-Tribromophenol	59		35 - 137				06/09/14 18:46	06/12/14 13:40	5
Terphenyl-d14	65		36 - 134				06/09/14 18:46	06/12/14 13:40	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Arsenic	4.9		0.53	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Barium	48		0.53	0.057	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Beryllium	0.45		0.21	0.043	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Boron	5.9		2.7	0.53	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Cadmium	0.58		0.11	0.014	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Calcium	78000		110	29	mg/Kg	☼	06/05/14 16:30	06/09/14 18:22	10
Chromium	11		0.53	0.062	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Cobalt	3.9		0.27	0.053	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Copper	22		0.53	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Iron	11000		11	4.4	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Lead	100	B	0.27	0.079	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Magnesium	26000		5.3	1.1	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Manganese	320		0.53	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Nickel	9.1		0.53	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Potassium	1000		27	1.6	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Silver	0.027	J	0.27	0.019	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Sodium	1900		53	7.1	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Thallium	0.53		0.53	0.23	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Vanadium	20		0.27	0.039	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1
Zinc	58		1.1	0.22	mg/Kg	☼	06/05/14 16:30	06/06/14 23:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/16/14 10:08	06/16/14 14:02	1
Lead	0.0085		0.0075	0.0075	mg/L		06/16/14 10:08	06/16/14 14:02	1
Manganese	0.27		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 14:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B05

Lab Sample ID: 500-77955-8

Date Collected: 05/30/14 14:55

Matrix: Solid

Date Received: 05/31/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.35	J	0.50	0.050	mg/L		06/10/14 15:00	06/11/14 18:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/10/14 15:00	06/11/14 18:10	1
Boron	1.3		0.10	0.050	mg/L		06/10/14 15:00	06/11/14 18:10	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		06/10/14 15:00	06/12/14 13:52	1
Chromium	0.079		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:10	1
Cobalt	0.015	J	0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:10	1
Iron	60		0.20	0.20	mg/L		06/10/14 15:00	06/11/14 18:10	1
Lead	0.44		0.0075	0.0075	mg/L		06/10/14 15:00	06/12/14 13:52	1
Manganese	0.92		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:10	1
Nickel	0.058		0.025	0.010	mg/L		06/10/14 15:00	06/12/14 13:52	1
Selenium	<0.050		0.050	0.010	mg/L		06/10/14 15:00	06/11/14 18:10	1
Silver	<0.025		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:10	1
Zinc	0.56		0.10	0.020	mg/L		06/10/14 15:00	06/12/14 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/10/14 15:00	06/11/14 15:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/10/14 15:00	06/11/14 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J	0.00020	0.00010	mg/L		06/10/14 12:53	06/11/14 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0073	mg/Kg	✱	06/03/14 13:30	06/04/14 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.69		0.200	0.200	SU			06/10/14 10:20	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B06

Lab Sample ID: 500-77955-9

Date Collected: 05/30/14 14:05

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0035		0.0035	0.0015	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Benzene	<0.0035		0.0035	0.00048	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Bromodichloromethane	<0.0035		0.0035	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Bromoform	<0.0035		0.0035	0.00081	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Bromomethane	<0.0035		0.0035	0.0011	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
2-Butanone (MEK)	<0.0035		0.0035	0.0013	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Carbon disulfide	<0.0035		0.0035	0.00053	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Carbon tetrachloride	<0.0035		0.0035	0.00064	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Chlorobenzene	<0.0035		0.0035	0.00036	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Chloroethane	<0.0035		0.0035	0.00096	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Chloroform	<0.0035		0.0035	0.00041	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Chloromethane	<0.0035	*	0.0035	0.00074	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
cis-1,2-Dichloroethene	<0.0035		0.0035	0.00050	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
cis-1,3-Dichloropropene	<0.0035		0.0035	0.00046	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Dibromochloromethane	<0.0035		0.0035	0.00062	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
1,1-Dichloroethane	<0.0035		0.0035	0.00056	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
1,2-Dichloroethane	<0.0035		0.0035	0.00052	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
1,1-Dichloroethene	<0.0035		0.0035	0.00057	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
1,2-Dichloropropane	<0.0035		0.0035	0.00054	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
1,3-Dichloropropene, Total	<0.0035		0.0035	0.00046	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Ethylbenzene	<0.0035		0.0035	0.00071	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
2-Hexanone	<0.0035		0.0035	0.0010	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Methylene Chloride	<0.0035		0.0035	0.00095	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.00093	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Methyl tert-butyl ether	<0.0035		0.0035	0.00058	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Styrene	<0.0035		0.0035	0.00046	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
1,1,1,2-Tetrachloroethane	<0.0035		0.0035	0.00071	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Tetrachloroethene	<0.0035		0.0035	0.00054	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Toluene	<0.0035		0.0035	0.00050	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
trans-1,2-Dichloroethene	<0.0035		0.0035	0.00049	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
trans-1,3-Dichloropropene	<0.0035		0.0035	0.00063	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
1,1,1-Trichloroethane	<0.0035		0.0035	0.00053	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
1,1,2-Trichloroethane	<0.0035		0.0035	0.00048	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Trichloroethene	<0.0035		0.0035	0.00058	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Vinyl acetate	<0.0035		0.0035	0.00056	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Vinyl chloride	<0.0035	*	0.0035	0.00074	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1
Xylenes, Total	<0.0071		0.0071	0.00032	mg/Kg	☼	05/31/14 09:50	06/04/14 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	05/31/14 09:50	06/04/14 16:28	1
Dibromofluoromethane	119		75 - 120	05/31/14 09:50	06/04/14 16:28	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	05/31/14 09:50	06/04/14 16:28	1
Toluene-d8 (Surr)	94		75 - 122	05/31/14 09:50	06/04/14 16:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.078	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B06

Lab Sample ID: 500-77955-9

Date Collected: 05/30/14 14:05

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.043	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Hexachlorocyclopentadiene	<0.70	*	0.70	0.20	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
2-Methylnaphthalene	<0.035		0.035	0.0064	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
2-Nitrophenol	<0.35		0.35	0.082	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
2,4-Dinitrophenol	<0.70	*	0.70	0.61	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Acenaphthylene	0.044		0.035	0.0046	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Hexachlorobenzene	<0.070		0.070	0.0081	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
4,6-Dinitro-2-methylphenol	<0.35	*	0.35	0.28	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Phenanthrene	0.0094	J	0.035	0.0049	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Anthracene	0.0096	J	0.035	0.0058	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Fluoranthene	0.10		0.035	0.0065	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Pyrene	0.12		0.035	0.0069	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Butyl benzyl phthalate	<0.18		0.18	0.066	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Benzo[a]anthracene	0.092		0.035	0.0047	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B06

Lab Sample ID: 500-77955-9

Date Collected: 05/30/14 14:05

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.12		0.035	0.0095	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Benzo[b]fluoranthene	0.19		0.035	0.0075	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Benzo[k]fluoranthene	0.072		0.035	0.010	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Benzo[a]pyrene	0.14		0.035	0.0068	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Indeno[1,2,3-cd]pyrene	0.096		0.035	0.0090	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Dibenz(a,h)anthracene	0.018	J	0.035	0.0067	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Benzo[g,h,i]perylene	0.088		0.035	0.011	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	06/09/14 18:46	06/12/14 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		25 - 110				06/09/14 18:46	06/12/14 14:00	1
Phenol-d5	40		31 - 110				06/09/14 18:46	06/12/14 14:00	1
Nitrobenzene-d5	38		25 - 115				06/09/14 18:46	06/12/14 14:00	1
2-Fluorobiphenyl	42		25 - 119				06/09/14 18:46	06/12/14 14:00	1
2,4,6-Tribromophenol	47		35 - 137				06/09/14 18:46	06/12/14 14:00	1
Terphenyl-d14	62		36 - 134				06/09/14 18:46	06/12/14 14:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.42	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Arsenic	4.0		0.53	0.10	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Barium	76		0.53	0.056	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Beryllium	0.32		0.21	0.042	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Boron	3.3		2.6	0.53	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Cadmium	0.46		0.11	0.013	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Calcium	33000		11	2.9	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Chromium	8.8		0.53	0.061	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Cobalt	6.1		0.26	0.053	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Copper	11		0.53	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Iron	10000		11	4.3	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Lead	6.7	B ^	0.26	0.078	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Magnesium	21000		5.3	1.1	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Manganese	730		0.53	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Nickel	13		0.53	0.11	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Potassium	790		26	1.6	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Silver	0.032	J	0.26	0.019	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Sodium	2500		53	7.1	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Thallium	1.0		0.53	0.22	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Vanadium	22		0.26	0.039	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1
Zinc	20		1.1	0.21	mg/Kg	☼	06/05/14 16:30	06/06/14 23:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/16/14 10:08	06/16/14 14:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/16/14 10:08	06/16/14 14:07	1
Manganese	0.12		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 14:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Client Sample ID: 2821-2-B06

Lab Sample ID: 500-77955-9

Date Collected: 05/30/14 14:05

Matrix: Solid

Date Received: 05/31/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.37	J	0.50	0.050	mg/L		06/10/14 15:00	06/11/14 18:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/10/14 15:00	06/11/14 18:16	1
Boron	1.4		0.10	0.050	mg/L		06/10/14 15:00	06/11/14 18:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/10/14 15:00	06/12/14 13:56	1
Chromium	0.084		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:16	1
Cobalt	0.014	J	0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:16	1
Iron	64		0.20	0.20	mg/L		06/10/14 15:00	06/11/14 18:16	1
Lead	0.056		0.0075	0.0075	mg/L		06/10/14 15:00	06/12/14 13:56	1
Manganese	0.68		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:16	1
Nickel	0.053		0.025	0.010	mg/L		06/10/14 15:00	06/12/14 13:56	1
Selenium	<0.050		0.050	0.010	mg/L		06/10/14 15:00	06/11/14 18:16	1
Silver	<0.025		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:16	1
Zinc	0.25		0.10	0.020	mg/L		06/10/14 15:00	06/12/14 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/10/14 15:00	06/11/14 15:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/10/14 15:00	06/11/14 15:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.00010	mg/L		06/10/14 12:53	06/11/14 11:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.016	0.0064	mg/Kg	✱	06/03/14 13:30	06/04/14 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.52		0.200	0.200	SU			06/10/14 10:28	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Information Project Name: <u>US 14 McKinney Co</u> Project No.: <u>IDOT 2013-077</u> TAT: <input type="checkbox"/> 15 BD <input checked="" type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-77965</u> Sample Temp: <u>28.34</u> Matrix Key:													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
4	2821-a-B01	5/30/14	1:45	S	X	X					X	X	X	X		0-4.5'
5	2821-a-B02		1:30	S	X	X					X	X	X	X		
6	2821-a-B03		1:15	S	X	X					X	X	X	X		
7	2821-a-B04		2:40	S	X	X					X	X	X	X		
8	2821-a-B05		2:55	S	X	X					X	X	X	X		
9	2821-a-B06	↓	2:05	S	X	X					X	X	X	X		↓
Relinquished by: <u>Felix Amador (AEE)</u> Date/Time: <u>5/30/14 6:27</u> Received by: <u>P. Neal</u> Date/Time: <u>5/30 18:25</u>																
Relinquished by: <u>P. Neal</u> Date/Time: <u>5/30 19:25</u> Received by: <u>Shawn Drott</u> Date/Time: <u>5/31/14 06:30</u>																
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____																



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 066 (US 14) Office Phone Number, if available: _____

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

9800 block of N. US 14 (NW and SW corners of N. US 14 and Lawrence Creek)

City: Unincorporated State: IL Zip Code: 60033

County: McHenry Township: Chemung

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

Latitude: 42.46870 Longitude: -88.59952
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: _____

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

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

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

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

Project Name: FAP 066 (US 14)
Latitude: 42.46870 Longitude: -88.59952

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION 2821-3-B01 WAS SAMPLED ADJACENT TO SITE No. 2821-3. SEE FIGURE 2 AND TABLE 3c OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - Job ID: 500-77955-3

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

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

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

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

Street Address: 2300 South Dirksen Parkway

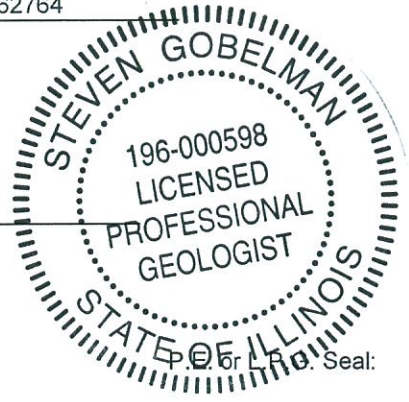
City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman
Printed Name:

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

6/27/14
Date:



Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2821-3

Grassland

Sample ID	2821-3-B01	Sample Depth (ft)	0-4.5	Sample Date	5/30/2014	PID	0	Sample pH	7.6	Matrix	Soil		
		1 Most Stringent MAC		2 Outside a Populated Area MAC		3 Populated non-Metropolitan Statistical Area MAC		4 Within Chicago Corporate Limits MAC		5 Metropolitan Statistical Area MAC		6 Class I Soil TCLP/SPLP Comparisons Only	
Semivolatile Organic Compounds (mg/kg)													
Benzo(a)pyrene	0.38	1.2	0.09	0.09	0.98	1.3	2.1	NA					
Dibenzo(a,h)anthracene	0.11	1.2	0.09	0.09	0.15	0.2	0.42	NA					

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77955-3
Client Project/Site: IDOT - US 14 - WO 077

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/16/2014 4:35:29 PM

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

LINKS

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results through
TotalAccess

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www.testamericainc.com

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

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

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

1

2

3

4

5

6

7

8

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-3

Client Sample ID: 2821-3-B01

Lab Sample ID: 500-77955-10

Date Collected: 05/30/14 12:55

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.044		0.0047	0.0020	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Bromodichloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Chloromethane	<0.0047	*	0.0047	0.00099	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00077	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00065	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Vinyl chloride	<0.0047	*	0.0047	0.00099	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	05/31/14 09:50	06/04/14 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	05/31/14 09:50	06/04/14 16:51	1
Dibromofluoromethane	117		75 - 120	05/31/14 09:50	06/04/14 16:51	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	05/31/14 09:50	06/04/14 16:51	1
Toluene-d8 (Surr)	98		75 - 122	05/31/14 09:50	06/04/14 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-3

Client Sample ID: 2821-3-B01

Lab Sample ID: 500-77955-10

Date Collected: 05/30/14 12:55

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Hexachlorocyclopentadiene	<0.81	*	0.81	0.23	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
2,4-Dinitrophenol	<0.81	*	0.81	0.71	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Acenaphthylene	0.14		0.040	0.0053	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
4,6-Dinitro-2-methylphenol	<0.40	*	0.40	0.32	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Phenanthrene	0.047		0.040	0.0056	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Anthracene	0.042		0.040	0.0067	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Fluoranthene	0.35		0.040	0.0075	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Pyrene	0.33		0.040	0.0080	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Benzo[a]anthracene	0.23		0.040	0.0054	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-3

Client Sample ID: 2821-3-B01

Lab Sample ID: 500-77955-10

Date Collected: 05/30/14 12:55

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.35		0.040	0.011	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Benzo[b]fluoranthene	0.51		0.040	0.0087	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Benzo[k]fluoranthene	0.22		0.040	0.012	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Benzo[a]pyrene	0.38		0.040	0.0078	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Indeno[1,2,3-cd]pyrene	0.33		0.040	0.010	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Dibenz(a,h)anthracene	0.11		0.040	0.0078	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
Benzo[g,h,i]perylene	0.32		0.040	0.013	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	06/09/14 18:46	06/12/14 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	30		25 - 110	06/09/14 18:46	06/12/14 14:21	1
Phenol-d5	22	X	31 - 110	06/09/14 18:46	06/12/14 14:21	1
Nitrobenzene-d5	22	X	25 - 115	06/09/14 18:46	06/12/14 14:21	1
2-Fluorobiphenyl	27		25 - 119	06/09/14 18:46	06/12/14 14:21	1
2,4,6-Tribromophenol	43		35 - 137	06/09/14 18:46	06/12/14 14:21	1
Terphenyl-d14	42		36 - 134	06/09/14 18:46	06/12/14 14:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Arsenic	4.3		0.61	0.12	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Barium	68		0.61	0.065	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Beryllium	0.39		0.24	0.049	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Boron	4.5		3.0	0.61	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Cadmium	0.47		0.12	0.015	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Calcium	38000		12	3.3	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Chromium	10		0.61	0.071	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Cobalt	4.7		0.30	0.061	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Copper	17		0.61	0.12	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Iron	11000		12	5.0	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Lead	23	B ^	0.30	0.091	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Magnesium	25000		6.1	1.3	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Manganese	530		0.61	0.12	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Nickel	9.0		0.61	0.12	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Potassium	1200		30	1.8	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Selenium	<0.61		0.61	0.22	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Silver	0.042	J	0.30	0.022	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Sodium	2800		61	8.2	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Thallium	0.73		0.61	0.26	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Vanadium	21		0.30	0.045	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1
Zinc	57		1.2	0.25	mg/Kg	☼	06/05/14 16:30	06/07/14 00:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.38		0.20	0.20	mg/L		06/16/14 10:08	06/16/14 14:12	1
Lead	0.0082		0.0075	0.0075	mg/L		06/16/14 10:08	06/16/14 14:12	1
Manganese	9.9		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 14:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-3

Client Sample ID: 2821-3-B01

Lab Sample ID: 500-77955-10

Date Collected: 05/30/14 12:55

Matrix: Solid

Date Received: 05/31/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.22	J	0.50	0.050	mg/L		06/10/14 15:00	06/11/14 18:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/10/14 15:00	06/11/14 18:23	1
Boron	1.4		0.10	0.050	mg/L		06/10/14 15:00	06/11/14 18:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/10/14 15:00	06/12/14 14:00	1
Chromium	0.031		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:23	1
Cobalt	<0.025		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:23	1
Iron	23		0.20	0.20	mg/L		06/10/14 15:00	06/11/14 18:23	1
Lead	0.066		0.0075	0.0075	mg/L		06/10/14 15:00	06/12/14 14:00	1
Manganese	0.45		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:23	1
Nickel	0.023	J	0.025	0.010	mg/L		06/10/14 15:00	06/12/14 14:00	1
Selenium	<0.050		0.050	0.010	mg/L		06/10/14 15:00	06/11/14 18:23	1
Silver	<0.025		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:23	1
Zinc	0.20		0.10	0.020	mg/L		06/10/14 15:00	06/12/14 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/10/14 15:00	06/11/14 15:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/10/14 15:00	06/11/14 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		06/10/14 12:53	06/11/14 11:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.071		0.021	0.0081	mg/Kg	✱	06/03/14 13:30	06/04/14 13:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.60		0.200	0.200	SU			06/10/14 10:37	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-3

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 066 (US 14) Office Phone Number, if available: _____

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

9800 block of N. US 14 (NE and SE corners of N. US 14 and Lawrence Creek)

City: Unincorporated State: IL Zip Code: 60033

County: McHenry Township: Chemung

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

Latitude: 42.46826 Longitude: -88.59946
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: _____

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

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

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

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

Project Name: FAP 066 (US 14)

Latitude: 42.46826 Longitude: -88.59946

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION 2821-4-B01 WAS SAMPLED ADJACENT TO SITE No. 2821-4. SEE FIGURE 2 AND TABLE 3d OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - Job ID: 500-77955-4

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

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

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

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

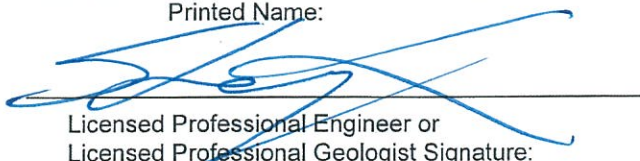
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

6/27/14
Date:



Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77955-4
Client Project/Site: IDOT - US 14 - WO 077

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/16/2014 4:38:50 PM

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

LINKS

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results through
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www.testamericainc.com

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-4

Client Sample ID: 2821-4-B01

Lab Sample ID: 500-77955-13

Date Collected: 05/30/14 14:20

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Benzene	<0.0043		0.0043	0.00060	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Chloromethane	<0.0043	*	0.0043	0.00091	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00062	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Dibromochloromethane	<0.0043		0.0043	0.00076	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Ethylbenzene	<0.0043		0.0043	0.00088	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00072	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Trichloroethene	<0.0043		0.0043	0.00072	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Vinyl chloride	<0.0043	*	0.0043	0.00091	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	05/31/14 09:50	06/04/14 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	05/31/14 09:50	06/04/14 18:00	1
Dibromofluoromethane	112		75 - 120	05/31/14 09:50	06/04/14 18:00	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	05/31/14 09:50	06/04/14 18:00	1
Toluene-d8 (Surr)	101		75 - 122	05/31/14 09:50	06/04/14 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.077	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-4

Client Sample ID: 2821-4-B01

Lab Sample ID: 500-77955-13

Date Collected: 05/30/14 14:20

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Nitrobenzene	<0.034		0.034	0.0086	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Naphthalene	<0.034		0.034	0.0053	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
2,4,5-Trichlorophenol	<0.34		0.34	0.079	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Hexachlorocyclopentadiene	<0.70	*	0.70	0.20	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
2-Methylnaphthalene	<0.034		0.034	0.0063	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
2-Nitrophenol	<0.34		0.34	0.082	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
2,4-Dinitrophenol	<0.70	*	0.70	0.61	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Acenaphthylene	0.011	J	0.034	0.0046	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Acenaphthene	<0.034		0.034	0.0062	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Fluorene	<0.034		0.034	0.0049	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.046	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Hexachlorobenzene	<0.070		0.070	0.0080	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Pentachlorophenol	<0.70		0.70	0.55	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
4,6-Dinitro-2-methylphenol	<0.34	*	0.34	0.28	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Phenanthrene	0.025	J	0.034	0.0048	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Anthracene	<0.034		0.034	0.0058	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Carbazole	<0.17		0.17	0.089	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Di-n-butyl phthalate	<0.17		0.17	0.053	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Fluoranthene	0.056		0.034	0.0064	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Pyrene	0.063		0.034	0.0069	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Benzo[a]anthracene	0.037		0.034	0.0046	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-4

Client Sample ID: 2821-4-B01

Lab Sample ID: 500-77955-13

Date Collected: 05/30/14 14:20

Matrix: Solid

Date Received: 05/31/14 06:30

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.046		0.034	0.0094	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Benzo[b]fluoranthene	0.079		0.034	0.0074	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Benzo[k]fluoranthene	0.026 J		0.034	0.010	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Benzo[a]pyrene	0.049		0.034	0.0067	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Indeno[1,2,3-cd]pyrene	0.026 J		0.034	0.0089	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0067	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
3 & 4 Methylphenol	<0.17		0.17	0.058	mg/Kg	☼	06/09/14 18:46	06/12/14 15:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	35		25 - 110				06/09/14 18:46	06/12/14 15:22	1
Phenol-d5	26	X	31 - 110				06/09/14 18:46	06/12/14 15:22	1
Nitrobenzene-d5	30		25 - 115				06/09/14 18:46	06/12/14 15:22	1
2-Fluorobiphenyl	35		25 - 119				06/09/14 18:46	06/12/14 15:22	1
2,4,6-Tribromophenol	42		35 - 137				06/09/14 18:46	06/12/14 15:22	1
Terphenyl-d14	52		36 - 134				06/09/14 18:46	06/12/14 15:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Arsenic	4.7		0.54	0.11	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Barium	75		0.54	0.058	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Beryllium	0.41		0.22	0.043	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Boron	5.3		2.7	0.54	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Cadmium	0.42		0.11	0.014	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Calcium	37000		11	2.9	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Chromium	10		0.54	0.063	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Cobalt	4.9		0.27	0.054	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Copper	17		0.54	0.11	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Iron	12000		11	4.5	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Lead	38 B ^		0.27	0.081	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Magnesium	24000		5.4	1.1	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Manganese	620		0.54	0.11	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Nickel	11		0.54	0.11	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Potassium	1200		27	1.6	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Silver	0.030 J		0.27	0.020	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Sodium	2700		54	7.3	mg/Kg	☼	06/05/14 16:30	06/09/14 18:30	1
Thallium	0.75		0.54	0.23	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Vanadium	20		0.27	0.040	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1
Zinc	37		1.1	0.22	mg/Kg	☼	06/05/14 16:30	06/07/14 00:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/16/14 10:08	06/16/14 14:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/16/14 10:08	06/16/14 14:27	1
Manganese	0.19		0.025	0.010	mg/L		06/16/14 10:08	06/16/14 14:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-4

Client Sample ID: 2821-4-B01

Lab Sample ID: 500-77955-13

Date Collected: 05/30/14 14:20

Matrix: Solid

Date Received: 05/31/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32	J	0.50	0.050	mg/L		06/10/14 15:00	06/11/14 18:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/10/14 15:00	06/11/14 18:41	1
Boron	1.0		0.10	0.050	mg/L		06/10/14 15:00	06/11/14 18:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/10/14 15:00	06/12/14 14:12	1
Chromium	0.073		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:41	1
Cobalt	0.016	J	0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:41	1
Iron	64		0.20	0.20	mg/L		06/10/14 15:00	06/11/14 18:41	1
Lead	0.18		0.0075	0.0075	mg/L		06/10/14 15:00	06/12/14 14:12	1
Manganese	0.80		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:41	1
Nickel	0.064		0.025	0.010	mg/L		06/10/14 15:00	06/12/14 14:12	1
Selenium	<0.050		0.050	0.010	mg/L		06/10/14 15:00	06/11/14 18:41	1
Silver	<0.025		0.025	0.010	mg/L		06/10/14 15:00	06/11/14 18:41	1
Zinc	0.37		0.10	0.020	mg/L		06/10/14 15:00	06/12/14 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/10/14 15:00	06/11/14 15:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/10/14 15:00	06/11/14 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.00010	mg/L		06/10/14 12:53	06/11/14 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.016	0.0064	mg/Kg	☼	06/03/14 13:30	06/04/14 13:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.39		0.200	0.200	SU			06/10/14 11:03	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 14 - WO 077

TestAmerica Job ID: 500-77955-4

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

